ROY COOPER
Governor

MICHAEL S. REGAN
Secretary

MICHAEL ABRACZINSKAS
Director

NORTH CAROLINA
Environmental Quality

XX XXX, 2020

Mr. Vergil Norrod
Plant Manager
Bridgestone Americas Tire Operations, LLC
P.O. Box 1139
Wilson, North Carolina 27893-1139

Dear Mr. Burke:

SUBJECT: Air Quality Permit No. 01660T73
Facility ID: 9800043
Bridgestone Americas Tire Operations, LLC
Wilson, North Carolina
Wilson County
Fee Class: Title V
PSD Class: Major

In accordance with your completed Air Quality Permit Application for a PAL renewal of a Title V Permit received January 1, 2019 we are forwarding Air Quality Permit No. 01660T73 to Bridgestone Americas Tire Operations, LLC, 3001 Firestone Parkway NE, Wilson, North Carolina authorizing the construction and operation, of the emission source(s) and associated air pollution control device(s) specified herein. Additionally, any emissions activities determined from your Air Quality Permit Application as being insignificant per 15A North Carolina Administrative Code 2Q .0503(8) have been listed for informational purposes as an "ATTACHMENT." Please note the requirements for the annual compliance certification are contained in General Condition P in Section 3. The current owner is responsible for submitting a compliance certification for the entire year regardless of who owned the facility during the year.

As the designated responsible official it is your responsibility to review, understand, and abide by all of the terms and conditions of the attached permit. It is also your responsibility to ensure that any person who operates any emission source and associated air pollution control device subject to any term or condition of the attached permit reviews, understands, and abides by the condition(s) of the attached permit that are applicable to that particular emission source.

If any parts, requirements, or limitations contained in this Air Quality Permit are unacceptable to you, you have the right to request a formal adjudicatory hearing within 30 days following receipt of this permit, identifying the specific issues to be contested. This hearing request must be in the form of a written petition, conforming to NCGS (North Carolina General Statutes) 150B-23, and filed with both the Office of Administrative Hearings, 6714 Mail Service Center, Raleigh, North Carolina 27699-6714 and the Division of Air Quality, Permitting Section, 1641 Mail Service Center, Raleigh, North Carolina 27699-1641. The form for requesting a formal adjudicatory hearing may be obtained upon request from the Office of NCGS 150B-23, this Air Quality Permit shall be final and binding 30 days after issuance.

You may request modification of your Air Quality Permit through informal means pursuant to NCGS 150B-22. This request must be submitted in writing to the Director and must identify the specific provisions

or issues for which the modification is sought. Please note that this Air Quality Permit will become final and binding regardless of a request for informal modification unless a request for a hearing is also made under NCGS 150B-23.

The construction of new air pollution emission source(s) and associated air pollution control device(s), or modifications to the emission source(s) and air pollution control device(s) described in this permit must be covered under an Air Quality Permit issued by the Division of Air Quality prior to construction unless the Permittee has fulfilled the requirements of NCGS 143-215.108A(b) and received written approval from the Director of the Division of Air Quality to commence construction. Failure to receive an Air Quality Permit or written approval prior to commencing construction is a violation of NCGS 143-215.108A and may subject the Permittee to civil or criminal penalties as described in NCGS 143-215.114A and 143-215.114B.

Wilson County has triggered increment tracking under PSD for PM_{10}, SO_2 and NO_x. However, this permit renewal does not consume or expand increments for any pollutants.

This Air Quality Permit shall be effective from XXX xxx, 2020 until May 31, 2022, is nontransferable to future owners and operators, and shall be subject to the conditions and limitations as specified therein. Should you have any questions concerning this matter, please contact Gautam Patnaik, P.E., at 919-707-8735 or gautam.patnaik@ncdenr.gov.

Sincerely yours,

William D. Willets, P.E., Chief, Permitting Section
Division of Air Quality, NCDEQ

Enclosure

cc: Raleigh Regional Office
Central Files
Connie Horne (cover letter only)

Summary of Changes to Permit

The following changes were made to the Bridgestone Americas Tire Operations, LLC – Wilson, Air Permit No. 01660T72:

Page(s)	Section	Description of Change(s)
Cover letter		Change in name of Responsible Officer for this facility
3 through 6	Permitted emission sources and associated air pollution control devices table	Removed word "Subpart" from the permit sources table
66	2.4 A.	Changed the effective and expiration date of the VOC PAL
74 through 83	General Conditions	Updated to current revision

ATTACHMENT to Permit No. 01660T73

Insignificant Activities per 15A NCAC 2Q .0503(8)

Emission Source ID No.	Emission Source Description
IS-9	One LPG storage tank (1,000 gallon capacity)
I-RM-1	Banbury 621 slab cooling and handling
I-RM-4	Banbury 624 rubber mixing and slab forming
I-RM-5	Banbury 622 slab cooling and handling
IS-4.5	Emergency Diesel Compressor (49hp) (subject to GACT ZZZZ and NSPS, Subpart IIII)
IES-4.9 (NSPS IIII and GACT ZZZZ)	Emergency Diesel Compressor (49hp) (subject to GACT ZZZZ and NSPS, Subpart IIII)
IES-4.7 (NSPS JJJJ)	100 kW natural gas-fired emergency generator
IES-4.8 (NSPS JJJJ)	130 kW propane-fired emergency generator

1. Because an activity is insignificant does not mean that the activity is exempted from an applicable requirement or that the owner or operator of the source is exempted from demonstrating compliance with any applicable requirement.
2. When applicable, emissions from stationary source activities identified above shall be included in determining compliance with the permit requirements for toxic air pollutants under 15A NCAC 2D .1100, "Control of Toxic Air Pollutants," or 15A NCAC 2Q .0711, "Emission Rates Requiring a Permit."
3. For additional information regarding the applicability of MACT or GACT see the DAQ page titled "Specific Permit Conditions Regulatory Guide." The link to this site is as follows: http://deq.nc.gov/about/divisions/air-quality/air-quality-permits/specific-permit-conditions-regulatory-guide.

State of North Carolina
Department of Environmental Quality
Division of Air Quality

AIR QUALITY PERMIT

Permit No.	Replaces Permit No.	Effective Date	Expiration Date
01660T73	01660T72	XXX xx, 2020	May 31, 2022

Note - Effective and expiration dates for the Actuals Plant-wide Applicability Limitations (Actuals PAL) portion of this permit may differ from these dates.

Until such time as this permit expires or is modified or revoked, the below named Permittee is permitted to construct and operate the emission source(s) and associated air pollution control device(s) specified herein, in accordance with the terms, conditions, and limitations within this permit. This permit is issued under the provisions of Article 21B of Chapter 143, General Statutes of North Carolina as amended, and Title 15A North Carolina Administrative Codes (15A NCAC), Subchapters 2D and 2Q, and other applicable Laws.

Pursuant to Title 15A NCAC, Subchapter 2Q, the Permittee shall not construct, operate, or modify any emission source(s) or air pollution control device(s) without having first submitted a complete Air Quality Permit Application to the permitting authority and received an Air Quality Permit, except as provided in this permit.

Permittee: **Bridgestone Americas Tire Operations, LLC**
Facility ID: **9800043**
Facility Site Location: **3001 Firestone Parkway, NE**
City, County, State, Zip: **Wilson, Wilson County, North Carolina 27893**

Mailing Address: **P.O. Box 1139**
City, State, Zip: **Wilson, North Carolina 27893-1139**

Application Number: **9800043.19B**
Complete Application Date: **January 14, 2019**

Primary SIC Code: **3011**
Division of Air Quality: **Raleigh Regional Office**
Regional Office Address: **1628 Mail Service Center**
Raleigh, North Carolina 27699-1628

Permit issued this the xxth day of XXX, 2020

_____
William D. Willets, P.E., Chief, Permitting Section
By Authority of the Environmental Management Commission

Table of Contents

SECTION 1 - PERMITTED EMISSION SOURCE(S) AND ASSOCIATED AIR POLLUTION CONTROL DEVICE(S) AND APPURTENANCES

Page	Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description (1)
7	RCS-1	Chemical bin loading	DC-5	Fabric filter (480 square feet of filter area)
7	CW-1	Manual dry chemical weighing system from chemical bins	DC-6	Fabric filter (500 square feet of filter area)
7	RCS-2	Pigment bin loading and automated weighing system	DC-3	Fabric filter (480 square feet of filter area)
7	BU-1	Carbon black railcar and truck receiving and storage silo	DC-11	Fabric filter (250 square feet of filter area)
7	BT-1	Carbon black transfer from storage silo to transfer systems BT-2 and BT-4	DC-8	Fabric filter (250 square feet of filter area)
7	BT-2 BC-2 BD-2	Carbon black transfer from BT-1 to Banbury 622 mixer Banbury 622 charging Banbury 622 discharging	DC-2	Fabric filter (17,600 square feet of filter area)
9	BT-4 BC-4 BD-4	Carbon black transfer from BT-1 to Banbury 624 mixer Banbury 624 charging Banbury 624 discharging	N-1	Cartridge filter (17,600 square feet of filter area)
9	BC-4FM BD-4FM	Banbury 624 remix and final mix charging Banbury 624 remix and final mix discharging	N-2	Cartridge filter (14,464 square feet of filter area)
9	BC-1 BD-1	Banbury 621 charging Banbury 621 final mix discharging area	N-14	Fabric filter (17,600 square feet of filter area)
25	RMC-1 to RMC-9, RMT-11	Ten rubber mills	NA	NA
25	RMT-6 to RMT-10	Five rubber mills with associated material recovery	NA	NA
25	RMT-1 to RMT-3	Three rubber mills associated with the 10-inch tuber line (ID No. UT-1)	NA	NA
25	RMC-10	Rubber mill	NA	NA
25	RMC-11	Rubber mill	NA	NA
9	RM-2	Banbury 621 slab dip tank and cooling	NA	NA
9	RM-3	Banbury 622 slab dip tank and cooling	NA	NA
9	BC-3	Banbury 273 charging	DC-9	Fabric filter (1,300 square feet of filter area)
9	BD-3	Banbury 273 discharging	NA	NA

Page	Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description [1]
9	RM-6	Banbury 273 rubber mixing and slab cooling system	NA	NA
25	CAL-1	One three-roll calendar and one four-roll calendar	NA	NA
25	C-3	One four-roll calendar	NA	NA
13	BCO-1 **(NSPS BBB)**	No. 1 bead cementing operation	NA	NA
25	BCO-2	No. 2 bead cementing operation	NA	NA
25	UT-1	No. 1 extrusion line undertread cementing utilizing an intermittent spray/wipe application method and associated thread marking equipment	NA	NA
15	UT-2 **(NSPS BBB)**	No. 4 extrusion line undertread cementing	NA	NA
18	UT-3 **(NSPS BBB)**	No. 5 extrusion line undertread cementing	FI-T[2]	One natural gas-fired thermal oxidizer (5.0 million Btu per hour maximum heat input capacity) *(need not be operating)*
22	GT-10 **(NSPS BBB)**	Green tire doping operations	N-9	One baffled settling chamber (475 cubic feet) *(need not be operating)*
46	SW-3 **(NSPS BBB)**	Side wall cementing operation	NA	NA
25	TU-1	Six extrusion lines	NA	NA
25	TU-2	One extrusion line	NA	NA
48	TUC-3	One extrusion line	NA	NA
48	TU-4	One extrusion line	NA	NA
44	GT-11 through GT-22 **(NSPS BBB)**	Green tire dopers No. 11 through No. 22	NA	NA
44	GT-23 and GT-24 **(NSPS BBB)**	Green tire dopers No. 23 and No. 24	NA	NA
25	CA-1 through CA-4	Four curing areas	NA	NA
9	PB-1 through PB-7	Seven minor-buff spray paint booths equipped with dry filters	NA	NA
25	GA-1	Sidewall and tread grinding area	NA	NA
25	PW-1	Miscellaneous solvent usage	NA	NA
25	TA-1	Tire assembly area	NA	NA
25	FI-1	Final inspection area	NA	NA
25	RCM-1	One rubber cement mixing system	NA	NA
25	ST-1 through ST-4	Four 10,000 gallon solvent storage tanks	NA	NA

Page	Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description [(1)]
25	UA-1 UA-2 **(GACT 6J)**	Two natural gas/No. 2 fuel oil/No. 6 fuel oil-fired boilers (121 million Btu per hour maximum heat input capacity, each)	NA	NA
40	UA-T1 **(NSPS -Dc)**	Temporary, back-up natural gas/No. 2 fuel oil-fired boiler(s) with a maximum permitted heat input rating of no greater than 100 million Btu per hour, total	NA	NA
31	EGDD-1and EGDD-2 **(PSD; GACT ZZZZ)**	Two diesel-fired peak shaving generators (15.7 million Btu maximum heat input and 1600 kW output, 2300 Hp output, each)	CD-1, CD-2	Two Oxidation Catalysts
31	ACDD-1 **(PSD; GACT ZZZZ)**	diesel engine driven air compressor (4.46 million Btu per hour heat input and 625 Hp output)	CD-AC-1	Oxidation Catalyst
31	ACDD-2 **(PSD; GACT ZZZZ)**	diesel engine driven air compressor (4.46 million Btu per hour heat input and 625 Hp output)	CD-AC-2	Oxidation Catalyst
31	ACDD-4 **(PSD; GACT ZZZZ)**	diesel engine driven air compressor (4.46 million Btu per hour heat input and 625 Hp output)	CD-AC-3	Oxidation Catalyst
31	ACDD-3 **(PSD; GACT ZZZZ, NSPS IIII)**	One diesel engine driven air compressor (4.46 million Btu per hour heat input and 625 Hp output)	CD-AC-4	One Oxidation Catalyst
31	ACDD-5 **(PSD; GACT ZZZZ)**	One diesel engine driven air compressors (4.46 million Btu per hour heat input and 625 Hp output)	NA	NA
49	ES-4.5 and ES-4.6 **(GACT ZZZZ; NSPS IIII)**	Two diesel-fired emergency fire pump engines (175 Hp output, each)	NA	NA
70	ES-1.1 and ES-1.2	Two aromatic oil storage tanks (15,000 gallon capacity, each)	NA	NA
70	ES-2.1 and ES-2.2	Two napthenic oil storage tanks (15,000 gallon capacity each)	NA	NA
70	ES-3	One paraffin wax storage tank (15,000 gallon capacity)	NA	NA
70	ES-5	Banbury 624 slab dip ventilation system	NA	NA
70	ES-6	Spiral layer splicing operation	NA	NA

Page	Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description [1]
70	ES-7	One fuel oil storage tank (6,000 gallon capacity)	NA	NA
70	ES-8	One gasoline storage tank (1,000 gallon capacity)	NA	NA
70	ES-10	One triplex sidewall extrusion line	NA	NA
70	ES-11 and ES-12	Two No. 6 fuel oil storage tanks (100,000 gallon capacity, each)	NA	NA
70	ES-13	One resin oil storage tank (15,000 gallon capacity)	NA	NA
9	TM-1	Tandem mixer	DC-12	fabric filter (14,500 square feet of filter area)
9	RM-5	Tandem mixer slab cooling and handling	NA	NA
7	SI-1 to SI-6	Six silos	FR-1 to FR-6	Filter receivers (1,016 square feet of filter area, each)
30	* EGDD-3 (**GACT ZZZZ**)	diesel-fired peak shaving generator (2,145 kilowatts)	CD-3	Catalytic Oxidizer
30	* EGDD-4 (**GACT ZZZZ**)	diesel-fired peak shaving generator (2,145 kilowatts)	CD-4	Catalytic Oxidizer
30	* EGDD-5 (**GACT ZZZZ**)	diesel-fired peak shaving generator (2,145 kilowatts)	CD-5	Catalytic Oxidizer

[1] Baghouse total fabric filter areas are nominal.
[2] The thermal oxidizer may be used to control VOC emissions as an alternative compliance option of NSPS Subpart BBB.
* These emission source(s) and/or control device(s) (ID Nos. EGDD-3 through EGDD-5) are listed as a 15A NCAC 02Q .0501(c)(2) modification. The Permittee shall file a Title V Air Quality Permit Application on or before 12 months after commencing operation in accordance with General Condition NN.1. The permit shield described in General Condition R does not apply and compliance certification as described in General Condition P is not required.

SECTION 2 - SPECIFIC LIMITATIONS AND CONDITIONS

2.1 - Emission Source(s) and Control Devices(s) Specific Limitations and Conditions

The emission source(s) and associated air pollution control device(s) and appurtenances listed below are subject to the following specific terms, conditions, and limitations, including the testing, monitoring, recordkeeping, and reporting requirements as specified herein:

A. Chemical bin loading (ID No. RCS-1) with associated fabric filter (ID No. DC-5)
Manual chemical weighing system (ID No. CW-1) with associated fabric filter (ID No. DC-6)
Pigment bin loading and automated weighing system (ID No. RCS-2) with associated fabric filter (ID No. DC-3)
Carbon black rail car and truck receiving and storage silo (ID No. BU-1) with associated fabric filter (ID No. DC-11)
Carbon black transfer from storage silo to transfer systems BT-2 and BT-4 (ID No. BT-1) with associated fabric filter (ID No. DC-8)
Carbon black transfer from BT-1 to Banbury 622 mixer (ID No. BT-2) with associated fabric filter (ID No. DC-2)
Six silos (SI-1 to SI-6) associated with fabric filter (FR-1 to FR-6) each of these filter only control emissions from each associated silo.

The following table provides a summary of limits and standards for the emission source(s) described above:

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	For process rates up to 30 tons per hour: $E = 4.10 \times P^{0.67}$ For process rates greater than 30 tons per hour: $E = 55.0 \times P^{0.11} - 40$ Where: E = allowable emission rate in pounds per hour P = process weight in tons per hour	15A NCAC 2D .0515
Visible emissions	20 percent opacity	15A NCAC 2D .0521
Odors	**State-enforceable only** **See Section 2.2 A.2**	15A NCAC 2D .1806
Toxic air pollutants	**State-enforceable only** **See Section 2.2 A.3**	15A NCAC 2Q .0711
Toxic air pollutants	**State-enforceable only** **See Section 2.2 A.4**	15A NCAC 2D .1100
Hazardous air pollutants	**See Section 2.2 A.5**	15A NCAC 2Q .0317 (MACT Avoidance)
Volatile organic compounds	**See Section 2.4 A.**	15A NCAC 2D .0530

1. 15A NCAC 2D .0515: PARTICULATES FROM MISCELLANEOUS INDUSTRIAL PROCESSES

a. Emissions of particulate matter from these sources **(ID Nos. RCS-1, CW-1, RCS-2, BU-1, BT-1, BT-2, and SI-1 through SI-6)** shall not exceed an allowable emission rate as calculated by the following equations:

For process rates up to 30 tons per hour:

$E = 4.10 \times P^{0.67}$

For process rates greater than 30 tons per hour:

$E = 55.0 \times P^{0.11} - 40$

Where: E = allowable emission rate in pounds per hour
P = process weight in tons per hour

Liquid and gaseous fuels and combustion air are not considered as part of the process weight.

Testing [15A NCAC 2Q .0508(f)]

b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 A.1.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515.

Monitoring/Recordkeeping [15A NCAC 2Q .0508(f)]

c. Particulate emissions from these sources **(ID Nos. RCS-1, CW-1, RCS-2, BU-1, BT-1, and BT-2 and SI-1 through SI-6)** shall be controlled by twelve fabric filters **(ID Nos. DC-5, DC-6, DC-3, DC-11, DC-8, DC-2 and FR-1 through FR-6)** as described above. To ensure compliance, the Permittee shall perform inspections and maintenance as recommended by the manufacturer. In addition to the manufacturer's inspection and maintenance recommendations, or if there are no manufacturer's inspection and maintenance recommendations, as a minimum, the inspection and maintenance requirement shall include the following:
   i. a monthly visual inspection of the system ductwork and fabric filters for leaks, and
   ii. an annual (for each 12-month period following the initial inspection) internal inspection of each fabric filter for structural integrity and fabric filter condition.

   The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515 if the ductwork and fabric filters are not inspected and maintained.

d. The results of inspection and maintenance shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following for each fabric filter:
   i. the date and time of each recorded action;
   ii. the results of each inspection;
   iii. the results of maintenance performed on any control device; and
   iv. any variance from manufacturer's recommendations, if any, and corrections made.

   The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515 if these records are not maintained.

Reporting [15A NCAC 2Q .0508(f)]

e. The Permittee shall submit the results of any maintenance performed on any control device within 30 days of a written request by the DAQ.

f. The Permittee shall submit a summary report of monitoring and recordkeeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

2. 15A NCAC 2D .0521: CONTROL OF VISIBLE EMISIONS

a. Visible emissions from these sources **(ID Nos. RCS-1, CW-1, RCS-2, BU-1, BT-1, and BT-2, SI-1 through SI-6)** shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity.

Testing [15A NCAC 2Q .0508(f)]

b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 A.2.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

Monitoring/Recordkeeping [15A NCAC 2Q .0508(f)]

c. To ensure compliance, once a month, the Permittee shall observe the emission points of these sources **(ID Nos. RCS-1, CW-1, RCS-2, BU-1, BT-1, and BT-2 and SI-1 through SI-6**) during source operation for any visible emissions above normal. The Permittee shall establish "normal" for the source (ID Nos. **SI-1 through SI-6)** in the first 30 days following start-up of the equipment. The observation must be made for each month of the calendar year period to ensure compliance with this requirement. If visible emissions from these sources are observed to be above normal, the Permittee shall either:
   i. take appropriate action to correct the above-normal emissions as soon as practicable and within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or
   ii. demonstration that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 2D .2610 (Method 9) for 12 minutes is below the limit given in Section 2.1 A.2.a above.

   If the above-normal emissions are not corrected per i., above or if the demonstration in ii., above cannot be made, the Permittee shall be deemed to be in noncompliance with 15A NCAC 2D .0521.

d. The results of the monitoring shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
   i. the date and time of each recorded action;
   ii. the results of each observation and/or test noting those sources with emissions that were observed to be in noncompliance along with any corrective actions taken to reduce visible emissions; and
   iii. the results of any corrective actions performed.

   The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521 if these records are not maintained.

Reporting [15A NCAC 2Q .0508(f)]

e. The Permittee shall submit a summary report of the observations postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

B. Banbury 273 rubber mixing and slab cooling (ID No. RM-6)
Banbury 273 charging (ID No. BC-3) with associated fabric filter (ID No. DC-9)
Banbury 273 discharging (ID No. BD-3)
Banbury 621 slab dip tank and cooling (ID No. RM-2)
Banbury 621 charging (ID No. BC-1) with associated fabric filter (ID No. N-14)
Banbury 621 final mix discharging area (ID No. BD-1) with associated fabric filter (ID No. N-14)
Banbury 622 slab dip tank and cooling (ID No. RM-3)
Banbury 622 charging (ID No. BC-2) with associated fabric filter (ID No. DC-2)
Banbury 622 discharging (ID No. BD-2) with associated fabric filter (ID No. DC-2)
Banbury 624 rubber mixing and slab forming (ID No. RM-4)
Carbon black transfer from BT-1 to Banbury 624 mixer (ID No. BT-4), Banbury 624 master batch charging (ID No. BC-4), and Banbury 624 master batch discharging (ID No. BD-4) with associated cartridge filter (ID No. N-1)
Banbury 624 remix and final mix charging (ID No. BC-4FM) and Banbury 624 remix and final mix discharging (ID No. BD-4FM) with associated cartridge filter (ID No. N-2)
Seven minor-buff spray paint booths (ID Nos. PB-1 through PB-7)
Tamdem mixer (ID No. TM-1) with associated fabric filter (DC-12)

Tandem Mixer slab cooling and handling (RM-5)

The following table provides a summary of limits and standards for the emission source(s) described above:

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	For process rates up to 30 tons per hour: $E = 4.10 \times P^{0.67}$ For process rates greater than 30 tons per hour: $E = 55.0 \times P^{0.11} - 40$ Where: E = allowable emission rate in pounds per hour P = process weight in tons per hour	15A NCAC 2D .0515
Visible emissions	20 percent opacity	15A NCAC 2D .0521
Odors	**State-enforceable only** **See Section 2.2 A.2**	15A NCAC 2D .1806
Toxic air pollutants	**State-enforceable only** **See Section 2.2 A.3**	15A NCAC 2Q .0711
Toxic air pollutants	**State-enforceable only** **See Section 2.2 A.4**	15A NCAC 2D .1100
Hazardous air pollutants	**See Section 2.2 A.5**	15A NCAC 2Q .0317 (MACT Avoidance)
Volatile organic compounds	**See Section 2.4 A.**	15A NCAC 2D .0530

1. 15A NCAC 2D .0515: PARTICULATES FROM MISCELLANEOUS INDUSTRIAL PROCESSES

a. Emissions of particulate matter from these sources **(ID Nos. BC-1 through BC-4, BC-4FM, BD-1 through BD-4, BD-4FM, BT-4, RM-2, RM-3, RM-6, PB-1 through PB-7, TM-1 and RM-5)** shall not exceed an allowable emission rate as calculated by the following equations:

For process rates up to 30 tons per hour:
$E = 4.10 \times P^{0.67}$

For process rates greater than 30 tons per hour:
$E = 55.0 \times P^{0.11} - 40$
Where: E = allowable emission rate in pounds per hour
P = process weight in tons per hour

Liquid and gaseous fuels and combustion air are not considered as part of the process weight.

Testing [15A NCAC 2Q .0508(f)]

b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 A.1.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515.

Monitoring/Recordkeeping [15A NCAC 2Q .0508(f)]

c. Particulate matter emissions from these sources **(ID Nos. BC-1 through BC-4, BC-4FM, BD-1, BD-2, BD-4, BD-4FM, BT-4, and TM-1)** shall be controlled by three fabric filters **(ID Nos. DC-9, N-14, and DC-2),** two cartridge filters **(ID Nos. N-1 and N-2)** and **a fabric filters (DC-12)** as described above. To ensure compliance, the Permittee shall perform inspections and maintenance as recommended by the manufacturer. In addition to the manufacturer's inspection and maintenance recommendations, or if there are no manufacturer's inspection and maintenance recommendations, as a minimum, the inspection and maintenance requirement shall include the following:
   i. a monthly visual inspection of the system ductwork, fabric filters, and cartridge filters for leaks, and
   ii. an annual (for each 12-month period following the initial inspection) internal inspection of each fabric filter and cartridge filter for structural integrity and filter condition.

   The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515 if the ductwork, fabric filters, and cartridge filters are not inspected and maintained.

d. Particulate matter emissions from these sources **(ID Nos. PB-1 through PB-7)** shall be controlled by spray booth filters. To ensure compliance, the Permittee shall perform inspections and maintenance. as a minimum, the inspection and maintenance program shall include an annual (for each 12-month period following the initial inspection) inspection of the associated ductwork for structural integrity and the spray booth filters for condition. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515 if the ductwork and filters are not inspected and maintained.

e. For these sources **(ID Nos. BD-3, RM-2, RM-3, RM-6, and TM-1)**, the Permittee shall maintain production records such that the process rates "P" in tons per hour, as specified by the formula above can be derived, and shall make these records available to a DAQ authorized representative upon request. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515 if the production records are not maintained or the types of materials and finishes are not monitored.

f. The results of inspection and maintenance shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following for each control device:
   i. the date and time of each recorded action;
   ii. the results of each inspection;
   iii. the results of an maintenance performed on any control device; and
   iv. any variance from manufacturer's recommendations, if any, and corrections made.

   The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515 if these records are not maintained.

Reporting [15A NCAC 2Q .0508(f)]

g. No reporting is required for particulate matter emissions from these sources **(ID Nos. BD-3, RM-2, RM-3, RM-6, TM-1 and RM-5)**.

h. The Permittee shall submit the results of any maintenance performed on any control device within 30 days of a written request by the DAQ.

i. The Permittee shall submit a summary report of monitoring and recordkeeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

2. 15A NCAC 2D .0521: CONTROL OF VISIBLE EMISIONS

a. Visible emissions from these sources **(ID Nos. BC-1 through BC-4, BC-4FM, BD-1 through BD-4, BD-4FM, BT-4, RM-2, RM-3, RM-6, and PB-1 through PB-7, TM-1 and RM-5)** shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity.

Testing [15A NCAC 2Q .0508(f)]

b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 A.2.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

Monitoring/Recordkeeping [15A NCAC 2Q .0508(f)]

c. To ensure compliance, once a month, the Permittee shall observe the emission points of these sources **(ID Nos. BC-1 through BC-4, BC-4FM, BD-1 through BD-4, BD-4FM, BT-4, RM-2, RM-3, RM-6, and PB-1 through PB-7, TM-1 and RM-5)** during source operation for any visible emissions above normal. The Permittee shall establish "normal" for the source (ID Nos. **TM-1 and RM-5)** in the first 30 days following start-up of the equipment. The observation must be made for each month of the calendar year period to ensure compliance with this requirement. If visible emissions from these sources are observed to be above normal, the Permittee shall either:
   i. take appropriate action to correct the above-normal emissions as soon as practicable and within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or
   ii. demonstration that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 2D .2610 (Method 9) for 12 minutes is below the limit given in Section 2.1 A.2.a above.

   If the above-normal emissions are not corrected per i. above or if the demonstration in ii. above cannot be made, the Permittee shall be deemed to be in noncompliance with 15A NCAC 2D .0521.

d. The results of the monitoring shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
   i. the date and time of each recorded action;
   ii. the results of each observation and/or test noting those sources with emissions that were observed to be in noncompliance along with any corrective actions taken to reduce visible emissions; and
   iii. the results of any corrective actions performed.

   The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521 if these records are not maintained.

Reporting [15A NCAC 2Q .0508(f)]

e. The Permittee shall submit a summary report of the observations postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

C. No. 1 bead cementing operation (ID No. BCO-1)

The following table provides a summary of limits and standards for the emission source(s) described above:

Regulated Pollutant	Limits/Standards	Applicable Regulation
Volatile organic compounds	New Source Performance Standards for the Rubber Tire Manufacturing Industry No more than 5 grams of VOC per bead cemented for each month [40 CFR 60.542(a)(4)]	15A NCAC 2D .0524 (40 CFR 60, Subpart BBB)
Odors	**State-enforceable only** **See Section 2.2 A.2**	15A NCAC 2D .1806
Toxic air pollutants	**State-enforceable only** **See Section 2.2 A.3**	15A NCAC 2Q .0711
Toxic air pollutants	**State-enforceable only** **See Section 2.2 A.4**	15A NCAC 2D .1100
Hazardous air pollutants	**See Section 2.2 A.5**	15A NCAC 2Q .0317 (MACT Avoidance)
Volatile organic compounds	**See Section 2.4 A.**	15A NCAC 2D .0530

1. 15A NCAC 2D .0524: NEW SOURCE PERFORMANCE STANDARDS

a. Emissions of volatile organic compounds from this source **(ID No. BCO-1)** shall be less than 5 grams per bead cemented on a monthly basis. [40 CFR 60.542(a)(4)]

Monitoring/Recordkeeping [40 CFR 60.543(e)]

b. The Permittee shall use the following procedure to determine compliance with the VOC emission per bead limit specified in Section 2.1 C.1.a above by the end of each month for the previous month.
   i. Determine the density and weight fraction of VOC (including dilution VOC) of each cement from its formulation or by analysis of the cement using EPA reference Method 24.
   ii. Calculate the total mass of VOC used at the affected facility for the month (Mo) as specified below:
      A. For each affected facility for which cement is delivered in batch or via a distribution system that serves only the affected facility:

$$M_o = \sum_{i=1}^{a} Lc_i \; Dc_i \; Wo_i$$

Where:

a = the number of different cements used during the month that are delivered in batch or via a distribution system that serves only a single affected facility
Lc_i = the volume of cement "i" used for a month in liters
Dc_i = the density of cement "i" in grams per liter
Wo_i = weight fraction of VOC in cement "i"
Mo = total mass of VOC used at an affect facility for a month in grams

B. For each affected facility for which cement is delivered via a common distribution system that also serves other affected or existing facilities:
   (1) Calculate the total mass of VOC used for all of the facilities served by the common distribution system for the month (M):

$$M = \sum_{i=1}^{b} Lc_i \; Dc_i \; Wo_i$$

Where:

b = equals the number of different cements or green tire sprays used during the month that are delivered via a common distribution system that also serves other affected or existing facilities.
Lc_i = the volume of cement "i" used for a month in liters
Dc_i = the density of cement "i" in grams per liter
Wo_i = weight fraction of VOC in cement "i"
M = total mass of VOC used for a month by all facilities served by a common cement distribution system

   (2) Determine the fraction (Fo) of M used at the affected facility by comparing the production records and process specifications for the material cemented at the affected facility for the month to the production records and process specifications for the material cemented at all other facilities served by the common distribution system for the month or by another procedure acceptable to the DAQ.
   (3) Calculate the total monthly mass of VOC used at the affected facility for the month (Mo): Mo = MFo

iii. Determine the number of beads cemented at the affected facility during the month (Bo) using production records (Bo equals the number of beads that receive an application of cement for the month).
iv. Calculate the mass of VOC used per bead cemented at the affected facility for the month (Gb): Gb = Mo/Bo

The Permittee shall be deemed in non-compliance with 15 NCAC 2D .0524 if the required determinations are not completed and documented, or if the mass of VOC used per bead (Gb) exceeds the limit in Section 2.1 C.1.a above.

Reporting [15A NCAC 2Q .0508(f)]

c. The Permittee shall submit a summary report of any exceedances of the mass of VOC emitted per bead cemented (Gb) emission limit which includes the mass of VOC used (Mo) and the number of beads cemented (Bo). The report shall be postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

D. No. 4 extrusion line undertread cementing (ID No. UT-2)

The following table provides a summary of limits and standards for the emission source(s) described above:

Regulated Pollutant	Limits/Standards	Applicable Regulation
Volatile organic compounds	New Source Performance Standards for the Rubber Tire Manufacturing Industry Maintain total (uncontrolled) VOC use less than or equal to the levels specified below, depending upon the duration of the compliance period: 3,870 kg (8,531 lb) of VOC per 28 days, 4,010 kg (8,846 lb) of VOC per 29 days, 4,150 kg (9,149 lb) of VOC per 30 days, 4,280 kg (9,436 lb) of VOC per 31 days, or 4,840 kg (10,670 lb) of VOC per 35 days. [40 CFR 60.542(a)(1)(ii)]	15A NCAC 2D .0524 (40 CFR 60, Subpart BBB)
Volatile organic compounds	**BACT Limitation** - VOC emissions shall not exceed 636 pounds per day and 56.6 tons per consecutive 12-month period	15A NCAC 2D .0530
Odors	**State-enforceable only** **See Section 2.2 A.2**	15A NCAC 2D .1806
Toxic air pollutants	**State-enforceable only** **See Section 2.2 A.3**	15A NCAC 2Q .0711
Toxic air pollutants	**State-enforceable only** **See Section 2.2 A.4**	15A NCAC 2D .1100
Hazardous air pollutants	**See Section 2.2 A.5**	15A NCAC 2Q .0317 (MACT Avoidance)
Volatile organic compounds	**See Section 2.4 A.**	15A NCAC 2D .0530

1. 15A NCAC 2D .0524: NEW SOURCE PERFORMANCE STANDARDS

a. The Permittee shall maintain total (uncontrolled) VOC use less than or equal to the levels specified below for this source **(ID No. UT-2)**:
   i. 3,870 kg (8,531 lb) of VOC per 28 days,
   ii. 4010 kg (8,846 lb) of VOC per 29 days,
   iii. 4,150 kg (9,149 lb) of VOC per 30 days,
   iv. 4,280 kg (9,436 lb) of VOC per 31 days, or
   v. 4,840 kg (10,670 lb) of VOC per 35 days depending upon the duration of the compliance period. [40 CFR 60.542(a)(1)(ii)]

Monitoring/Recordkeeping [40 CFR 60.543(e)]

b. The Permittee shall use the following procedure to determine compliance with the VOC emission limit specified in 2.1 D.1.a above by the end of each month for the previous month.
   i. Determine the density and weight fraction of VOC (including dilution VOC) of each cement from its formulation or by analysis of the cement using EPA reference Method 24.
   ii. Calculate the total mass of VOC used at the affected facility for the month (Mo) as specified below:
      A. For each affected facility for which cement is delivered in batch or via a distribution system that serves only the affected facility:

$$Mo = \sum_{i=1}^{a} Lc_i \quad Dc_i \; Wo_i$$

Where:
a = the number of different cements used during the month that are delivered in batch or via a distribution system that serves only a single affected facility
Lc_i = the volume of cement "i" used for a month in liters
Dc_i = the density of cement "i" in grams per liter
Wo_i = weight fraction of VOC in cement "i"
Mo = total mass of VOC used at an affect facility for a month in grams

      B. For each affected facility for which cement is delivered via a common distribution system that also serves other affected or existing facilities:
         (1) Calculate the total mass of VOC used for all of the facilities served by the common distribution system for the month (M):

$$M = \sum_{i=1}^{b} Lc_i \; Dc_i \; Wo_i$$

Where:
b = equals the number of different cements or green tire sprays used during the month that are delivered via a common distribution system that also serves other affected or existing facilities.
Lc_i = the volume of cement "i" used for a month in liters
Dc_i = the density of cement "i" in grams per liter
Wo_i = weight fraction of VOC in cement "i"
M = total mass of VOC used for a month by all facilities served by a common cement distribution system

         (2) Determine the fraction (Fo) of M used at the affected facility by comparing the production records and process specifications for the material cemented at the affected facility for the month to the production records and process specifications for the material cemented at all other facilities served by the common distribution system for the month or by another procedure acceptable to the DAQ.
         (3) Calculate the total monthly mass of VOC used at the affected facility for the month (Mo): Mo = MFo
   iii. Determine the time duration of the monthly time period (Td).

The Permittee shall be deemed in non-compliance with 15 NCAC 2D .0524 if the required determinations are not completed and documented, or if emissions exceed the limit(s) in Section 2.1 D.1.a of this permit.

Reporting [15A NCAC 2Q .0508(f)]

c. The Permittee shall submit a summary report of any exceedances of the mass of VOC used (Mo) for each monthly time period and the corresponding number of days in the respective time period. Reports shall be postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

2. 15A NCAC 2D .0530: PREVENTION OF SIGNIFICANT DETERIORATION

a. To comply with the best available control technology determination pursuant to 15A NCAC 2D .0530, "Prevention of Significant Deterioration," volatile organic compound (VOC) emissions from this source **(ID No. UT-2)** shall not exceed 636 pounds per day and 56.6 tons per consecutive 12-month period.

Monitoring/Recordkeeping [15A NCAC 2Q .0508(f)]

b. Daily VOC emissions shall be determined by multiplying the total amount of each type of VOC containing material used in this source **(ID No. UT-2)** each day by the VOC content of the material minus any material reclaimed or shipped offsite for reclamation or disposal. These calculations and the total daily amounts of VOC emissions shall be recorded in an emissions logbook (written or electronic format) for each month no later than the third day of the following month. In addition, the Permittee shall make available to officials of the Division of Air Quality, upon request, copies of the emissions log. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if the VOC emissions exceed the limit in 2.1.D.2.a above.

Reporting [15A NCAC 2Q .0508(f)]

c. The Permittee shall submit a summary report of monitoring and recordkeeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. The report shall contain the following:
   i. The maximum daily VOC emissions for each of the previous 17 months. The daily emissions must be calculated for each of the 12-month periods over the previous 17 months; and
   ii. The monthly VOC emissions for the previous 17 months. The emissions must be calculated for each of the 12-month periods over the previous 17 months.

E. No. 5 extrusion line undertread cementing (ID No. UT-3) with associated optional thermal oxidizer (ID No. FI-T)

The following table provides a summary of limits and standards for the emission source(s) described above:

Regulated Pollutant	Limits/Standards	Applicable Regulation
Volatile organic compounds	Primary Compliance Scenario (PCS) New Source Performance Standards for the Rubber Tire Manufacturing Industry Maintain total (uncontrolled) VOC use less than or equal to the levels specified below, depending upon the duration of the compliance period: 3,870 kg (8,531 lb) of VOC per 28 days, 4,010 kg (8,846 lb) of VOC per 29 days, 4,150 kg (9,149 lb) of VOC per 30 days, 4,280 kg (9,436 lb) of VOC per 31 days, or 4,840 kg (10,670 lb) of VOC per 35 days. [40 CFR 60.542(a)(1)(ii)]	15A NCAC 2D .0524 (40 CFR 60, Subpart BBB)
Volatile organic compounds	Alternate Compliance Scenario (ACS) New Source Performance Standards for the Rubber Tire Manufacturing Industry Equipment design and performance specifications of 40 CFR 60.543(j)(1), (2), (4), (5), and (6) and 95 percent efficient control device	15A NCAC 2D .0524 (40 CFR 60, Subpart BBB)
Odors	**State-enforceable only** **See Section 2.2 A.2**	15A NCAC 2D .1806
Toxic air pollutants	**State-enforceable only** **See Section 2.2 A.3**	15A NCAC 2Q .0711
Toxic air pollutants	**State-enforceable only** **See Section 2.2 A.4**	15A NCAC 2D .1100
Hazardous air pollutants	**See Section 2.2 A.5**	15A NCAC 2Q .0317 (MACT Avoidance)
Volatile organic compounds	**See Section 2.4 A.**	15A NCAC 2D .0530

PCS

1. 15A NCAC 2D .0524: NEW SOURCE PERFORMANCE STANDARDS

a. The Permittee shall maintain total (uncontrolled) VOC use less than or equal to the levels specified below for this source **(ID No. UT-3)**:
   i. 3,870 kg (8,531 lb) of VOC per 28 days,
   ii. 4,010 kg (8,846 lb) of VOC per 29 days,
   iii. 4,150 kg (9,149 lb) of VOC per 30 days,
   iv. 4,280 kg (9,436 lb) of VOC per 31 days, or
   v. 4,840 kg (10,670 lb) of VOC per 35 days depending upon the duration of the compliance period.
   [40 CFR 60.542(a)(1)(ii)]

   Monitoring/Recordkeeping [40 CFR 60.543(e)]

b. The Permittee shall use the following procedure to determine compliance with the VOC emission limit specified in 2.1 E.1.a above.

   i. Determine the density and weight fraction of VOC (including dilution VOC) of each cement from its formulation or by analysis of the cement using EPA reference method 24.

ii. Calculate the total mass of VOC used at the affected facility for the month (Mo) by the end of each month for the previous month as specified below:

A. For each affected facility for which cement is delivered in batch or via a distribution system that serves only the affected facility:

$$Mo = \sum_{i=1}^{a} Lc_i \; Dc_i \; Wo_i$$

Where:

a = the number of different cements used during the month that are delivered in batch or via a distribution system that serves only a single affected facility

Lc_i = the volume of cement "i" used for a month in liters

Dc_i = the density of cement "i" in grams per liter

Wo_i = weight fraction of VOC in cement "i"

Mo = total mass of VOC used at an affected facility for a month in grams

B. For each affected facility for which cement is delivered via a common distribution system that also serves other affected or existing facilities:

(1) Calculate the total mass of VOC used for all of the facilities served by the common distribution system for the month (M):

$$M = \sum_{i=1}^{b} Lc_i \; Dc_i \; Wo_i$$

Where:

b = equals the number of different cements or green tire sprays used during the month that are delivered via a common distribution system that also serves other affected or existing facilities.

Lc_i = the volume of cement "i" used for a month in liters

Dc_i = the density of cement "i" in grams per liter

Wo_i = weight fraction of VOC in cement "i"

M = total mass of VOC used for a month by all facilities served by a common cement distribution system

(2) Determine the fraction (Fo) of M used at the affected facility by comparing the production records and process specifications for the material cemented at the affected facility for the month to the production records and process specifications for the material cemented at all other facilities served by the common distribution system for the month or by another procedure acceptable to the DAQ.

(3) Calculate the total monthly mass of VOC used at the affected facility for the month (Mo): Mo = MFo

iii. Determine the time duration of the monthly time period (Td).

The Permittee shall be deemed in non-compliance with 15 NCAC 2D .0524 if the required determinations are not completed and documented, or if emissions exceed the limit(s) in Section 2.1 E.1.a of this permit.

Reporting [15A NCAC 2Q .0508(f)]

c. The Permittee shall submit a summary report of any exceedances of the mass of VOC used (Mo) for each monthly time period and the corresponding number of days in the respective time period. The report shall be postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

ACS

2. 15A NCAC 2D .0524: NEW SOURCE PERFORMANCE STANDARDS

a. The cement application and drying areas of this source **(ID No. UT-3)** shall be contained in an enclosure that meets the following criteria:
   i. The drying area shall be enclosed between the application area and the water bath, or to the extent necessary to contain all tire components, for at least 30 seconds after cement application, whichever distance is less.
   ii. A minimum face velocity of 30.5 meters (100 feet) per minute shall be maintained continuously through each permanent opening into the enclosure when all temporary enclosure openings are closed. The cross-sectional area of each permanent opening shall be divided into at least 12 equal areas, and a velocity measurement shall be performed at the centroid of each equal area with an anemometer or similar velocity monitoring device; the face velocity of each permanent opening is the average value of the velocity measurements taken. The monitoring device shall be calibrated and operated according to the manufacturer's instructions.
   iii. Temporary enclosure openings shall remain closed at all times except when worker access is necessary.
   iv. The total area of all permanent openings into the enclosure shall not exceed the area that would be necessary to maintain the VOC concentration of the exhaust gas stream at 25 percent of the lower explosive limit (LEL) under the following conditions:
      A. The facility is operating at the maximum solvent use rate;
      B. The face velocity through each permanent opening is 30.5 meters (100 feet) per minute; and
      C. All temporary openings are closed.
   v. All captured VOC are vented to a VOC emission control device that is operated on a continuous basis and that achieves at least a 95 percent destruction or recovery efficiency.

   The Permittee shall be deemed in non-compliance with 15 NCAC 2D .0524 if enclosure specifications and VOC destruction or recovery efficiency are not achieved and documented.

Testing [40 CFR 60.543(b)(3)]

b. The Permittee shall conduct a repeat performance test when directed by the DAQ or when the Permittee elects to operate the capture system or control device at conditions different from the most recent determination of control device efficiency or measurement of capture system retention time or face velocity. The performance test shall be conducted in accordance with the procedures described under 40 CFR 60.543(f)(2)(ii).

Monitoring/Recordkeeping [40 CFR 60.544(a)(i) and 40 CFR 60.545]

c. The Permittee shall install, calibrate, maintain, and operate according to manufacturer's specifications, a temperature monitoring device equipped with a continuous recorder for the temperature of the gas stream in the combustion zone of the incinerator **(ID No. FI-T)**. The temperature monitoring device shall have an accuracy of 1 percent of the temperature being measured in °C or ±0.5 °C, whichever is greater.

d. The Permittee shall maintain continuous records of the temperature of the gas stream in the combustion zone of the incinerator and records of all 3-hour periods of operation for which the average temperature of the gas stream in the combustion zone was more than 28 °C (50 °F) below the combustion zone temperature measured during the most recent determination of the destruction efficiency of the thermal incinerator that demonstrated that the affected facility was in compliance.

Reporting [40 CFR 60.546]

e. In the event a repeat performance test is required pursuant to Section 2.1 E.2.b above, the Permittee shall report to the DAQ:
   i. the emission control device efficiency (E), the capture system efficiency (Fc), the face velocity through each permanent opening in the capture system with the temporary openings closed, and the overall system emission reduction (R) [40 CFR 60.546(c)(4)], and
   ii. the average combustion temperature measured at least every 15 minutes and averaged over the performance test period of incinerator destruction efficiency for each thermal incinerator. [40 CFR 60.546(e)(1)]

f. Every six months the Permittee shall report each 3-hour period of operation for which the average temperature of the gas stream in the combustion zone of a thermal incinerator, as measured by the temperature monitoring device, is more than 28°C (50°F) below the combustion zone temperature measured during the most recent determination of the destruction efficiency of the thermal incinerator that demonstrated that the affected facility was in compliance.

g. The Permittee shall notify the DAQ 30 days in advance of the date when the Permittee intends to use the VOC use limit of Section 2.1 E.1. a., above instead of the thermal oxidizer **(ID No. FI-T)**. A demonstration using the procedures of Section 2.1 E.1. a., above that the total VOC use at the affected facility has not exceeded the applicable total (uncontrolled) monthly VOC use limit during each of the last six months of operation shall be included with the notification. The Permittee shall be subject to the applicable percent emission reduction requirement until the demonstration is made.

F. One green tire doping operations (ID No. GT-10)

The following table provides a summary of limits and standards for the emission source(s) described above:

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	For process rates up to 30 tons per hour: $E = 4.10 \times P^{0.67}$ For process rates greater than 30 tons per hour: $E = 55.0 \times P^{0.11} - 40$ Where: E = allowable emission rate in pounds per hour, P = process weight in tons per hour	15A NCAC 2D .0515
Visible emissions	20 percent opacity	15A NCAC 2D .0521
Volatile organic compounds	New Source Performance Standards for the Rubber Tire Manufacturing Industry Inside spray - 1.2 grams of VOC per tire, monthly average Outside spray - 9.3 grams per tire, monthly average [60.542(a)(5)]	15A NCAC 2D .0524 (40 CFR 60, Subpart BBB)
Odors	**State-enforceable only See Section 2.2 A.2**	15A NCAC 2D .1806
Toxic air pollutants	**State-enforceable only See Section 2.2 A.3**	15A NCAC 2Q .0711
Toxic air pollutants	**State-enforceable only See Section 2.2 A.4**	15A NCAC 2D .1100
Hazardous air pollutants	**See Section 2.2 A.5**	15A NCAC 2Q .0317 (MACT Avoidance)
Volatile organic compounds	**See Section 2.4 A.**	15A NCAC 2D .0530

1. 15A NCAC 2D .0515: PARTICULATES FROM MISCELLANEOUS INDUSTRIAL PROCESSES

a. Emissions of particulate matter from this source **(ID No. GT-10)** shall not exceed an allowable emission rate as calculated by the following equations:

For process rates up to 30 tons per hour:
$E = 4.10 \times P^{0.67}$
For process rates greater than 30 tons per hour:
$E = 55.0 \times P^{0.11} - 40$

Where: E = allowable emission rate in pounds per hour, and
P = process weight in tons per hour

Liquid and gaseous fuels and combustion air are not considered as part of the process weight.

Testing [15A NCAC 2Q .0508(f)]

b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 F.1.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515.

Monitoring/Recordkeeping/Reporting [15A NCAC 2Q .0508(f)]

c. No monitoring/recordkeeping/reporting is required for particulate emissions from this source **(ID No. GT-10)**.

2. 15A NCAC 2D .0521: CONTROL OF VISIBLE EMISSIONS

a. Visible emissions from this source **(ID No. GT-10)** shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity.

Testing [15A NCAC 2Q .0508(f)]

b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 F.2.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

Monitoring/Recordkeeping [15A NCAC 2Q .0508(f)]

c. To ensure compliance, once every three months, the Permittee shall observe the emission point of this source **(ID No. GT-10)** during source operation for any visible emissions above normal. The quarterly observation must be made for each three-month period of the calendar year to ensure compliance with this requirement. If visible emissions from these sources are observed to be above normal, the Permittee shall either:
   i. take appropriate action to correct the above-normal emissions as soon as practicable and within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or
   ii. demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 2D .2610 (Method 9) for 12 minutes is below the limit given in Section 2.1 F.2.a above.

   If the above-normal emissions are not corrected per i. above or if the demonstration in ii. above cannot be made, the Permittee shall be deemed to be in noncompliance with 15A NCAC 2D .0521.

d. The results of the monitoring shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
   i. the date and time of each recorded action;
   ii. the results of each observation and/or test noting those sources with emissions that were observed to be in noncompliance along with any corrective actions taken to reduce visible emissions; and
   iii. the results of any corrective actions performed.

   The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521 if these records are not maintained.

Reporting [15A NCAC 2Q .0508(f)]

e. The Permittee shall submit a summary report of the observations postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

3. 15A NCAC 2D .0524: NEW SOURCE PERFORMANCE STANDARDS

a. The Permittee shall comply with all applicable provisions, including the notification, testing, recordkeeping, and monitoring requirements contained in Environmental Management Commission Standard 15A NCAC 2D .0524 "New Source Performance Standards (NSPS) as promulgated in 40 CFR Part 60 Subpart BBB, including Subpart A "General Provisions."

b. The Permittee shall maintain total (uncontrolled) VOC use less than or equal to the levels specified below for this source **(ID No. GT-10)**:
   i. inside spray - 1.2 grams of VOC per tire, monthly average; and
   ii. outside spray - 9.3 grams per tire, monthly average. [40 CFR 60.542(a)(5)]

Monitoring/Recordkeeping [40 CFR 60.545(f)]

c. The Permittee shall maintain formulation data or EPA reference Method 24 analysis data demonstrating that the green tire spray contains less than 1.0 percent by weight VOC. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0524 if these records are not maintained or, the formulation data or EPA reference Method 24 analysis data indicate that the green tire spray contains equal or more than 1.0 percent by weight of VOC.

Reporting [40 CFR 60.543(b)(4), 40 CFR 60.546(j), and 15A NCAC 2Q .0508(f)]

d. The Permittee shall submit to the DAQ within 60 days initially and annually thereafter, formulation data or EPA reference Method 24 analysis data demonstrating that the green tire spray contains less than 1.0 percent by weight VOC.
e. If the spray material formulation changes before the end of the 12-month period, formulation data or Method 24 analysis of the new spray shall be conducted to determine the VOC content of the spray and reported within 30 days of the change to the DAQ.
f. The Permittee shall comply with all applicable notification requirements in 40 CFR 60.7.
g. The Permittee shall submit a summary report of monitoring and recordkeeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

G. 20 rubber mills (ID Nos. RMT1 through RMT3, RMT6 through RMT11, and RMC1 through RMC11)
Three roll calenders and one four roll calender (ID No. CAL-1)
One four roll calender (ID No. C-3)
No. 2 bead cementing operation (ID No. BCO-2)
No. 1 extrusion line undertread cementing operation (ID No. UT-1)
Six extrusion lines (ID No. TU-1)
One extrusion line (ID No. TU-2)
Four curing areas (ID Nos. CA-1, CA-2, CA-3 and CA-4)
Sidewall and tread grinding (ID No. GA-1)
Miscellaneous solvent usage (ID No. PW-1)
Tire Assembly (ID No. TA-1)
Final inspection (ID No. FI-1)
Rubber Cement mixing (ID No. RCM-1)
Four solvent storage tanks (ID Nos. ST-1 through ST-4)

The following table provides a summary of limits and standards for the emission source(s) described above:

Regulated Pollutant	Limits/Standards	Applicable Regulation
Odors	**State-enforceable only** **See Section 2.2 A.2**	15A NCAC 2D .1806
Toxic air pollutants	**State-enforceable only** **See Section 2.2 A.3**	15A NCAC 2Q .0711
Toxic air pollutants	**State-enforceable only** **See Section 2.2 A.4**	15A NCAC 2D .1100
Hazardous air pollutants	**See Section 2.2 A.5**	15A NCAC 2Q .0317 (MACT Avoidance)
Volatile organic compounds	**See Section 2.4 A.**	15A NCAC 2D .0530

H. Two natural gas/No. 2 fuel oil/No. 6 fuel oil-fired boilers (ID Nos. UA-1 and UA-2)

The following table provides a summary of limits and standards for the emission source(s) described above:

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	0.262 pounds per million Btu heat input	15A NCAC 2D .0503
Sulfur dioxide	2.3 pounds per million Btu heat input	15A NCAC 2D .0516
Visible emissions	20 percent opacity	15A NCAC 2D .0521
Hazardous air pollutants	National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources	15A NCAC 2D .1111 (40 CFR 63, Subpart JJJJJJ)
Toxic air pollutants	**State-enforceable only** **See Section 2.2 A.3**	15A NCAC 2Q .0711
Toxic air pollutants	**State-enforceable only** **See Section 2.2 A.4**	15A NCAC 2D .1100
Hazardous air pollutants	**See Section 2.2 A.5**	15A NCAC 2Q .0317 (MACT Avoidance)
Volatile organic compounds	**See Section 2.4 A.**	15A NCAC 2D .0530

1. 15ANCAC 2D .0503: PARTICULATES FROM FUEL BURNING INDIRECT HEAT EXCHANGERS

a. Emissions of particulate matter from the combustion of natural gas, No. 2 fuel oil, and No. 6 fuel oil that are discharged from these sources **(ID Nos. UA-1 and UA-2)** into the atmosphere shall not exceed 0.262 pounds per million Btu heat input.

Testing [15A NCAC 2Q .0508(f)]

b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 H.1.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0503.

Monitoring/Recordkeeping/Reporting [15A NCAC 2Q .0508(f)]

c. No monitoring/recordkeeping/reporting is required for particulate emissions from the firing of natural gas, No. 2, and No. 6 fuel oil in these sources **(ID Nos. UA-1 and UA-2)**.

2. 15A NCAC 2D .0516: SULFUR DIOXIDE EMISSIONS FROM COMBUSTION SOURCES

a. Emissions of sulfur dioxide from these sources **(ID Nos. UA-1 and UA-2)** shall not exceed 2.3 pounds per million Btu heat input. Sulfur dioxide formed by the combustion of sulfur in fuels, wastes, ores, and other substances shall be included when determining compliance with this standard.

Testing [15A NCAC 2Q .0508(f)]

b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 H.2.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0516.

Monitoring/Recordkeeping [15A NCAC 2Q .0508(f) and 15A NCAC 2D .0501(c)(4)(A)]

c. No monitoring/recordkeeping is required for sulfur dioxide emissions from the firing of natural gas and No. 2 fuel oil in these sources **(ID Nos. UA-1 and UA-2)**.

d. The maximum sulfur content of any No. 6 fuel oil received and fired in these sources **(ID Nos. UA-1 and UA-2)** shall not exceed 2.1 percent by weight. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0516 if the sulfur content of the fuel oil exceeds this limit.

e. To ensure compliance, the Permittee shall monitor the sulfur content of the No. 6 fuel oil by using fuel oil supplier certification per shipment received. The results of the fuel oil supplier certifications shall be recorded in a logbook (written or electronic format) on a quarterly basis and include the following information:
   i. the name of the fuel oil supplier;
   ii. the maximum sulfur content of the fuel oil received during the quarter;
   iii. the method used to determine the maximum sulfur content of the fuel oil; and
   iv. a certified statement signed by the responsible official that the records of fuel oil supplier certification represent all of the No. 6 fuel oil fired during the period.

   The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0516 if the sulfur content of the oil is not monitored and recorded.

Reporting [15A NCAC 2Q .0508(f)]

f. The Permittee shall submit a summary report of the fuel oil supplier certifications postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

3. 15A NCAC 2D .0521: CONTROL OF VISIBLE EMISSIONS

a. Visible emissions from these sources **(ID Nos. UA-1 and UA-2)** shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity.

Testing [15A NCAC 2Q .0508(f)]

b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 H.3.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

Monitoring/Recordkeeping [15A NCAC 2Q .0508(f)]

c. To ensure compliance, once a day while combusting No. 6 fuel oil the Permittee shall observe the emission points of these sources **(ID Nos. UA-1 and UA-2)** for any visible emissions above normal. The daily observation must be made for each day of the calendar year period to ensure compliance with this requirement. The Permittee shall be allowed three (3) days of absent observations per semi-annual period per boiler. If visible emissions from these sources are observed to be above normal, the Permittee shall either:
   i. take appropriate action to correct the above-normal emissions as soon as practicable and within the monitoring period and record the action taken as provided in the recordkeeping requirements below, or
   ii. demonstrate that the percent opacity from the emission points of the emission source in accordance with 15A NCAC 2D .2610 (Method 9) for 12 minutes is below the limit given in Section 2.1 H.3.a above.

   If the above-normal emissions are not corrected per i. above or if the demonstration in ii. above cannot be made, the Permittee shall be deemed to be in noncompliance with 15A NCAC 2D .0521.

d. No monitoring/recordkeeping is required for visible emissions from the firing of natural gas and No. 2 fuel oil in these sources **(ID Nos. UA-1 and UA-2)**.

e. The results of the monitoring shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
   i. the date and time of each recorded action;
   ii. the results of each observation and/or test noting those sources with emissions that were observed to be in noncompliance along with any corrective actions taken to reduce visible emissions; and
   iii. the results of any corrective actions performed.

   The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521 if these records are not maintained.

Reporting [15A NCAC 2Q .0508(f)]

f. The Permittee shall submit a summary report of the observations postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

g. No reporting is required for visible emissions from the firing of natural gas and No. 2 fuel oil in these sources **(ID Nos. UA-1 and UA-2)**.

4. 15A NCAC 2D .1111: MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY

Applicability [40 CFR 63.11193, 63.11194(a), (b)]

a. For these sources **(ID Nos. UA-1 and UA-2)**, the Permittee shall comply with all applicable provisions, including the notification, testing, and monitoring requirements contained in Environmental Management Commission Standard 15A NCAC 2D .1111, "Maximum Achievable Control Technology" as promulgated in 40 CFR 63, Subpart JJJJJJ, " National Emission Standards for Hazardous Air Pollutants for Area Sources: Industrial, Commercial, and Institutional Boilers", including Subpart A "General Provisions."

Definitions and Nomenclature

b. For the purposes of this permit condition, the definitions and nomenclature contained in 40 CFR 63.11237 shall apply.

General Provisions [40 CFR 63.11235]

c. The Permittee shall comply with the General Provisions as applicable pursuant to Table 8 of 40 CFR 63 Subpart JJJJJJ.

Compliance Dates

d. The Permittee shall achieve compliance with the initial tune up requirement no later than March 21, 2014. [40 CFR 63.11196(a)(1) and 63.11210(c)]

e. **Reserved.**

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .1111 if these requirements are not met.

f. **Reserved.**

General Compliance Requirements [15A NCAC 02Q .0508(b)]

g. At all times the Permittee shall operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the Permittee to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.
[40 CFR 63.11205(a)]

Performance Tune-up Requirements [15A NCAC 02Q .0508(b)]

h. The Permittee shall conduct an initial tune-up of the boiler and subsequent tune-ups every 5 years.
   i. The Permittee shall conduct each 5-year tune-up no more than 61 months after the previous tune-up.
   ii. The Permittee shall conduct the tune-ups while burning the type of fuel (or fuels in the case of boilers that routinely burn two types of fuels at the same time) that provided the majority of the heat input to the boiler over the 12 months prior to the tune-up.
   iii. The tune-ups shall be conducted according to the procedures at 40 CFR 63.11223(b)(1) through (7).
   iv. The Permittee may delay the burner inspection specified in paragraph 40 CFR 63.11223(b)(1) and inspection of the system controlling the air-to-fuel ratio specified in 40 CFR 63.11223 (b)(3) until the next scheduled unit shutdown, but the Permittee shall inspect each burner and system controlling the air-to-fuel ratio at least once every 72 months.

   [40 CFR 63.11201, Table 2, 40 CFR 63.11223]

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .1111 if the requirements in conditions g. and h. are not met.

Recordkeeping [15A NCAC 02Q .0508(f)]

i.. The Permittee shall maintain the following records:

i. As required in 40 CFR 63.10(b)(2)(xiv), The Permittee shall keep a copy of each notification and report that was submitted to comply with this subpart and all documentation supporting any Notification of Compliance Status that was submitted.

ii. The Permittee shall keep records to document conformance with the performance tune-ups and energy assessment.

A. Records must identify each boiler, the date of tune-up, the procedures followed for tune-up, and the manufacturer's specifications to which the boiler was tuned.

B. The concentrations of CO in the effluent stream in parts per million, by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler.

C. A description of any corrective actions taken as a part of the tune-up of the boiler.

iii. Records of the occurrence and duration of each malfunction of the boiler.

iv. Records of actions taken during periods of malfunction to minimize emissions in accordance with the general duty to minimize emissions in **condition g**., including corrective actions to restore the malfunctioning boiler, air pollution control, or monitoring equipment to its normal or usual manner of operation.

[40 CFR 63.11225(c)]

j. The records must be in a form suitable and readily available for expeditious review. The Permittee shall keep each record for 5 years following the date of each recorded action. The Permittee shall keep each record on-site or be accessible from a central location by computer or other means that instantly provide access at the site for at least 2 years after the date of each recorded action. The Permittee may keep the records off site for the remaining 3 years.

[40 CFR 63.11225(d)]

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .1111 if the recordkeeping requirements in conditions i. and j. are not met.

Reporting [15A NCAC 2Q .0508(f)]

k. The Permittee shall submit a summary report of recordkeeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of noncompliance with the requirements of this permit shall be clearly identified.

l. The annual compliance certification reporting requirements of 40 CFR 63.11225(b) shall be met by complying with General Condition P of Section 3 of this permit.

**I. Two diesel engine driven peak shaving generators (ID Nos. EGDD-1 and EGDD-2)
Five diesel engine driven air compressors (ID Nos. ACDD-1 through ACDD-5)
Three diesel-fired peak shaving generators, 2,145 kilowatts each (ID Nos. EGDD-3 through EGDD-5)**

The following table provides a summary of limits and standards for the emission source(s) described above:

Regulated Pollutant	Limits/Standards	Applicable Regulation
Sulfur dioxide	2.3 pounds per million Btu heat input	15A NCAC 2D .0516
Visible emissions	40 percent opacity for sources (ID Nos. EGDD-1, EGDD-2, ACDD-1, ACDD-2, ACDD-4 and ACDD-5)	15A NCAC 2D .0521
Visible emissions	20 percent opacity Applicable only for air compressor (ID Nos. ACDD-3 and EGDD-3 through EGDD-5)	15A NCAC 2D .0521
Nitrogen oxides	PSD BACT Limitation – Nitrogen oxide emissions shall be less than 75.72 tons per consecutive 12-month period for sources (ID Nos. EGDD-1, EGDD-2 and ACDD-1 through ACDD-5)	15A NCAC 2D .0530
Hazardous air pollutants	National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines	15A NCAC 2D .1111 (40 CFR 63, Subpart ZZZZ)
NMHC + NO_X , HC, NO_X , CO and PM	Applicable only for air compressor (ID No. ACDD-3) HC = 1.0 g/HP-hr NOX = 6.9 g/HP-hr CO = 8.5 g/HP-hr PM = 0.40 g/HP-hr	15A NCAC 2D .0524 (40 CFR 60 subpart IIII)
Toxic air pollutants	**State-enforceable only** **See Section 2.2 A.3**	15A NCAC 2Q .0711
Toxic air pollutants	**State-enforceable only** **See Section 2.2 A.4**	15A NCAC 2D .1100
Hazardous air pollutants	**See Section 2.2 A.5**	15A NCAC 2Q .0317 (MACT Avoidance)
Volatile organic compounds	**See Section 2.4 A.**	15A NCAC 2D .0530

1. 15A NCAC 2D .0516: SULFUR DIOXIDE EMISSIONS FROM COMBUSTION SOURCES

a. Emissions of sulfur dioxide from these sources **(ID Nos. EGDD-1, EGDD-2, ACDD-1 through ACDD-5 and EGDD-3 through EGDD-5)** shall not exceed 2.3 pounds per million Btu heat input. Sulfur dioxide formed by the combustion of sulfur in fuels, wastes, ores, and other substances shall be included when determining compliance with this standard.

Testing [15A NCAC 2Q .0508(f)]

b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 I.1.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0516.

Monitoring/Recordkeeping/Reporting [15A NCAC 2Q .0508(f)]

c. No monitoring/recordkeeping/reporting is required for sulfur dioxide emissions from the combustion of diesel fuel in these sources **(ID Nos. EGDD-1, EGDD-2, ACDD-1 through ACDD-5 and EGDD-3 through EGDD-5)**.

2. 15A NCAC 2D .0521: CONTROL OF VISIBLE EMISSIONS

i. a. Visible emissions from these sources **(ID Nos. EGDD-1, EGDD-2, ACDD-1, ACDD-2, ACDD-4 and ACDD-5)** shall not be more than 40 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 40 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 90 percent opacity.

Testing [15A NCAC 2Q .0508(f)]

b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 I.2.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

Monitoring/Recordkeeping/Reporting [15A NCAC 2Q .0508(f)]

c. No monitoring/recordkeeping/reporting is required for visible emissions from the firing of diesel fuel in these sources **(ID Nos. EGDD-1, EGDD-2, ACDD-1, ACDD-2, ACDD-4 and ACDD-5)**.

ii. a. Visible emissions from this source **(ID No. ACDD-3 and EGDD-3 through EGDD-5),** shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity. [15A NCAC 2D .0521 (d)]

Testing [15A NCAC 2Q .0508(f)]

b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 I.2.a ii., above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

Monitoring/Recordkeeping/Reporting [15A NCAC 2Q .0508(f)]

c. No monitoring/recordkeeping/reporting is required for visible emissions from the firing of diesel fuel in this source **(ID No. ACDD-3 and EGDD-3 through EGDD-5)**.

3. 15A NCAC 2D .0530: PREVENTION OF SIGNIFICANT DETERIORATION

a. To comply with the best available control technology (BACT) determination pursuant to 15A NCAC 2D .0530, "Prevention of Significant Deterioration," nitrogen dioxide emissions from these sources **(ID Nos. EGDD-1, EGDD-2, and ACDD-1 through ACDD-5)** shall comply with the following BACT Limits:

PSD Affected Source	BACT Limit
Diesel-driven generator **(ID No. EGDD-1)**	43.76 lbs NOx/hour
Diesel-driven generator **(ID No. EGDD-2)**	43.76 lbs NOx/hour
Diesel-driven compressor **(ACDD-1)**	7.8 lbs NOx/hour
Diesel-driven compressor **(ACDD-2)**	7.8 lbs NOx/hour
Diesel-driven compressor **(ACDD-3)**	7.8 lbs NOx/hour
Diesel-driven compressor **(ACDD-4)**	7.8 lbs NOx/hour
Diesel-driven compressor **(ACDD-5)**	7.8 lbs NOx/hour

Operational Limitations [15A NCAC 2Q .0508(f)]

b. In order to ensure compliance with limit above, the facility is limited to the following operational conditions:

i. The Permittee shall limit operation of these sources **(ID Nos. EGDD-1 and EGDD-2)** to 1500 hours total per consecutive twelve-month period, and

ii. The Permittee shall limit operation of these sources **(ID Nos. ACDD-1 through ACDD-5)** to 11,000 hours total per consecutive twelve-month period.

Monitoring/Recordkeeping [15A NCAC 2Q .0508(f)]

c. The Permittee shall record the total monthly hours of operation for these sources **(ID Nos. EGDD-1, EGDD-2, and ACDD-1 through ACDD-5)**. Tons of NOx per month shall be calculated using the following equation for these sources **(ID Nos. EGDD-1 and EGDD-2)** by the end of each month for the previous month:

$$43.76 \ \frac{lbs\ NOx}{hour} \times A \ \frac{hours}{month} \times \frac{1.0\ ton}{2000\ lbs} = B \ \frac{tons\ NOx}{month}$$

Where:

A = the number of hours per month total for the two diesel engine driven generators.
B = the number of tons of NOx per month total for the two diesel engine driven generators.

Tons of NOx per month shall be calculated using the following equation for these sources **(ID Nos. ACDD-1 through ACDD-5)**:

$$7.80 \ \frac{lbs\ NOx}{hour} \times C \ \frac{hours}{month} \times \frac{1.0\ ton}{2000\ lbs} = D \ \frac{tons\ NOx}{month}$$

Where:

C = the number of hours per month total for the five diesel engine driven compressors.
D = the number of tons of NOx per month total for the five diesel engine driven compressors.

These calculations shall be recorded in an emissions logbook (electronic or written) for each month. In addition, the Permittee shall make available to officials of the Division of Air Quality, upon request, copies of the emissions log. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if the nitrogen dioxide emissions exceed a limit in Section 2.1.I.3.a above.

Reporting [15A NCAC 2Q .0508(f)]

d. The Permittee shall submit a summary report of monitoring and recordkeeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. The report shall contain the following:
   i. The monthly nitrogen oxide emissions for the previous 17 months. The emissions must be calculated for each of the 12-month periods over the previous 17 months; and
   ii. The monthly total hours of operation for the generators and for the compressors for the previous 17 months.

4. 15A NCAC 2D .1111: MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY

Applicability [40 CFR 63.6585, 63.6590(a)(1)(iii)]

a. For these engines **(ID Nos. EGDD-1, EGDD-2, ACDD-1, ACDD-2, ACDD-4, ACDD-5 and EGDD-3 through EGDD-5** (existing stationary RICE located at an area source of HAP emissions), the Permittee shall comply with all applicable provisions, including the monitoring, recordkeeping, and reporting contained in Environmental Management Commission Standard 15A NCAC 02D .1111 "Maximum Achievable Control Technology" (MACT) as promulgated in 40 CFR 63, "Subpart ZZZZ—National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines."

Definitions and Nomenclature

b. For the purposes of this permit condition, the definitions and nomenclature contained in 40 CFR 63.6675 shall apply.

c. **Reserved**

General Provisions [40 CFR 63.6665]

d. The Permittee shall comply with the General Provisions as applicable pursuant to Table 8 of 40 CFR 63 Subpart ZZZZ

Notifications [40 CFR 63.6645(a)(2)]

e. The Permittee shall submit all of the notifications in the following regulations that apply by the dates specified:
   i. 40 CFR 63.7(b) [*performance testing*] and (c) [*quality assurance program*];
   ii. 40 CFR 63.8(e) [*performance evaluation of CPMS*], (f)(4) and (f)(6) [*alternative monitoring methods*]; and
   iii. 40 CFR 63.9(b) through (e), and (g) and (h) [*initial notifications*].

   [40 CFR 63.6645(a)]

f. The Permittee shall submit a Notification of Intent to conduct a performance test at least 60 days before the performance test is scheduled to begin as required in 40 CFR 63.7(b)(1). [40 CFR 63.6645(g)]

g. For each performance test, the Permittee shall submit a Notification of Compliance Status, including the performance test results, before the close of business on the 60th day following the completion of the performance test according to 40 CFR 63.9(h)(2)(ii) and 63.10(d)(2). [40 CFR 63.6630(c), 63.6645(h)]

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .1111 if the notification requirements in conditions **e., through g.,** are not met.

General Compliance Requirements [15A NCAC 2Q .0508(b)]

h. The Permittee shall be in compliance with the emission limitations, operating limitations and other requirements in this subpart that apply at all times. [40 CFR 63.6605(a)]

i. The Permittee shall operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the Permittee to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. [40 CFR 63.6605(b)]

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .1111 if conditions **h., and i.,** are not met.

Fuel Requirements [15A NCAC 2Q .0508(b)]

j. The Permittee shall use diesel fuel that meets the following per-gallon standards:
   i. Sulfur content of 15 ppm maximum; and
   ii. Cetane index or aromatic content, as follows:
      A. minimum cetane index of 40; or
      B. maximum aromatic content of 35 volume percent

[40 CFR 63.6604, 80.510(b)]

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .1111 if condition **j.,** is not met.

Emissions and Operating Limitations [15A NCAC 2Q .0508(b)]

k. The Permittee shall, for each RICE, install an oxidation catalyst and:
   i. Limit the concentration of carbon monoxide (CO) in each stationary RICE exhaust to 23 ppmvd at 15 percent O2; or
   ii. reduce CO emissions from each RICE by 70 percent or more.

   [40 CFR63.6603(a), Table 2b, Table 2d]

l. The Permittee shall maintain the temperature of the stationary RICE exhaust so that the catalyst inlet temperature is greater than or equal to 450 °F and less than or equal to 1350 °F. [40 CFR 63.6603(a), Table 2b]

m. The Permittee shall maintain the catalyst so that the pressure drop across the catalyst does not change by more than 2 inches of water at 100 percent load plus or minus 10 percent from the pressure drop across the catalyst that was measured during the performance test. [40 CFR 63.6603(a), Table 2b]

n. For the engines not equipped with closed crankcase ventilation system, the Permittee shall either:
   i. Install a closed crankcase ventilation system that prevents crankcase emissions from being emitted to the atmosphere. The Permittee shall follow the manufacturer's specified maintenance requirements for operating and maintaining the crankcase ventilation systems, or can request the Administrator to approve different maintenance requirements that are as protective as manufacturer requirements.
   ii. Install an open crankcase filtration emission control system that reduces emissions from the crankcase by filtering the exhaust stream to remove oil mist, particulates and metals.

   [40 CFR 63.6625(g)]

o. During periods of startup of the RICE, the Permittee shall minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission limitations apply. [40 CFR 63.6602 and 63.6625(h)]

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .1111 if conditions **k., through o.,** are not met.

Testing Requirements [15A NCAC 2Q .0508(b)]

p. The Permittee shall conduct initial and subsequent performance tests to demonstrate compliance with the limitations in conditions k and l; and record the catalyst pressure drop. [40 CFR 63.6612(a), 63.6630(a)(b), Table 5]

q. **Reserved.**

r. The Permittee shall conduct subsequent performance tests every 8,760 hours *of operation* or 3 years, whichever comes first. [40 CFR 63.6615, Table 3]

s. Each performance test shall be conducted according to the requirements of 40 CFR 63 Table 4. If a non-operational stationary RICE is subject to performance testing, the Permittee does not need to start up the engine solely to conduct the performance test. The Permittee can conduct the performance test when the engine is started up again. [40 CFR 63.6620(b)]

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .1111 if conditions **p., through s.**, are not met.

Monitoring [15A NCAC 2Q .0508(f)]

t. The Permittee shall install, operate, and maintain continuous parameter monitoring systems (CPMS) to monitor the catalyst inlet temperature for each catalyst and reduce the temperature data to 4- hour rolling averages. The Permittee shall maintain the 4-hour rolling averages within the operating limitations for the catalyst inlet temperature in condition l. [40 CFR 63 Table 5, 63.6640(a), Table 6]

u. The Permittee shall measure the pressure drop across the catalyst once per month and demonstrate that the pressure drop across the catalyst is within the operating limitation established during the performance test per condition m. [40 CFR§ 63.6640(a), Table 5 and Table 6 of MACT Subpart ZZZZ]

v. The Permittee shall install, operate, and maintain each CPMS according to the requirements in paragraphs (1) through (6):

(1) The Permittee shall prepare a site-specific monitoring plan that addresses the monitoring system design, data collection, and the quality assurance and quality control elements outlined in paragraphs (b)(1)(i) through (v) of 40 CFR 63.6625 and in 40 CFR 63.8(d).

(2) The Permittee shall install, operate, and maintain each CPMS in continuous operation according to the procedures in the site-specific monitoring plan.

(3) The CPMS must collect data at least once every 15 minutes (see also 40 CFR 63.6635).

(4) For a CPMS for measuring temperature range, the temperature sensor must have a minimum tolerance of 2.8 degrees Celsius (5 degrees Fahrenheit) or 1 percent of the measurement range, whichever is larger.

(5) The Permittee shall conduct the CPMS equipment performance evaluation, system accuracy audits, or other audit procedures specified in the site-specific monitoring plan at least annually.

(6) The Permittee shall conduct a performance evaluation of each CPMS in accordance with the site-specific monitoring plan.

[40 CFR 63.6625(b)]

w. The Permittee shall monitor and collect data as follows:

i. Except for monitor malfunctions, associated repairs, required performance evaluations, and required quality assurance or control activities, the Permittee shall monitor continuously at all times that the stationary RICE is operating. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.

ii. The Permittee shall not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities in data averages and calculations used to report emission or operating levels. The Permittee shall, however, use all the valid data collected during all other periods.

[40 CFR 63.6635]

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .1111 if conditions **t., through w.**, are not met.

Recordkeeping [15A NCAC 2Q .0508(f)]

x. The Permittee shall keep records of the following monitoring data:
   i. catalyst(s) inlet temperature data including the 4-hour rolling averages; and
   ii. the monthly measurements of the pressure drop across the catalyst(s).

   [40 CFR 63.6655(d), Table 6]

y. The Permittee shall keep the following:
   i. A copy of each notification and report that was submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status that was submitted, according to the requirement in 40 CFR 63.10(b)(2)(xiv).
   ii. Records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment.
   iii. Records of performance tests and performance evaluations as required in 40 CFR 63.10(b)(2)(viii).
   iv. Records of all required maintenance performed on the air pollution control and monitoring equipment.
   v. Records of actions taken during periods of malfunction to minimize emissions in accordance with condition i, including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.

   [40 CFR 63.6655(a)]

z. For each inlet catalyst temperature CPMS, the Permittee shall keep the following records:
   i. Records described in 40 CFR 63.10(b)(2)(vi) through (xi).
   ii. Previous (i.e., superseded) versions of the performance evaluation plan as required in 40 CFR 63.8(d)(3).
   iii. Requests for alternatives to the relative accuracy test for CPMS as required in 40 CFR 63.8(f)(6)(i), if applicable.

   [40 CFR 63.6655(b)]

aa. The Permittee shall keep each record in a form suitable and readily accessible for expeditious review in hard copy or electronic form for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.10(b)(1). [40 CFR 63.6660]

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .1111 if conditions **x., through aa**., are not met.

Reporting [15A NCAC 2Q .0508(f)]

bb. The permittee shall submit a compliance report semiannually postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of noncompliance with the requirements of this permit must be clearly identified. [40 CFR 63.6650(b)(5) and 63.6650(f)]

cc. The compliance report must contain:
   i. Company name and address;
   ii. Statement by a responsible official, with that official's name, title, and signature, certifying the accuracy of the content of the report; and
   iii. Date of report and beginning and ending dates of the reporting period.
   iv. If a malfunction occurred during the reporting period, the compliance report must include the number, duration, and a brief description for each type of malfunction which occurred during the reporting period and which caused or may have caused any applicable emission limitation to be exceeded. The report must also include a description of actions taken by an owner or operator

during a malfunction of an affected source to minimize emissions in accordance with condition k, including actions taken to correct a malfunction.

v. If there are no instances of noncompliance from any emission or operating limitations that apply , a statement that there were no instances of noncompliance from the emission or operating limitations during the reporting period.

vi. If there were no periods during which the CPMS was out-of-control, as specified in 40 CFR63.8(c)(7), a statement that there were no periods during which the CPMS was out-of-control during the reporting period.

[40 CFR 63.6650(c)]

dd. For each instance of noncompliance from an emission or operating limitation that occurs for the stationary RICE where the Permittee is **not using a CMS** to comply with the emission or operating limitations, the compliance report must contain the information in condition cc. i., through iv., and the following information:

i. The total operating time of the stationary RICE at which the instance of noncompliance occurred during the reporting period.

ii. Information on the number, duration, and cause of instances of noncompliance (including unknown cause, if applicable), as applicable, and the corrective action taken.

[40 CFR 63.6650(d)]

ee. For each instance of noncompliance from an emission or operating limitation occurring for a stationary RICE where the Permittee **is using a CMS** to comply with the emission and operating limitations in this subpart, the Permittee shall include information in condition cc. i., through iv., and the following information:

i. The date and time that each malfunction started and stopped.

ii. The date, time, and duration that each CMS was inoperative, except for zero (low-level) and high-level checks.

iii. The date, time, and duration that each CMS was out-of-control, including the information in 40 CFR 63.8(c)(8).

iv. The date and time that each instance of noncompliance started and stopped, and whether each instance of noncompliance occurred during a period of malfunction or during another period.

v. A summary of the total duration of the instances of noncompliance during the reporting period, and the total duration as a percent of the total source operating time during that reporting period.

vi. A breakdown of the total duration of the instances of noncompliance during the reporting period into those that are due to control equipment problems, process problems, other known causes, and other unknown causes.

vii. A summary of the total duration of CMS downtime during the reporting period, and the total duration of CMS downtime as a percent of the total operating time of the stationary RICE at which the CMS downtime occurred during that reporting period.

viii. An identification of each parameter and pollutant that was monitored at the stationary RICE.

ix. A brief description of the stationary RICE.

x. A brief description of the CMS.

xi. The date of the latest CMS certification or audit.

xii. A description of any changes in CMS, processes, or controls since the last reporting period.

[40 CFR 63.6650(e)]

ff. The Permittee shall report each instance in which the requirements in condition d., were not met.

[40 CFR 63.6640(e)]

The Permittee shall be deemed in noncompliance with the reporting requirements of 15A NCAC 2D .1111 if conditions **bb., through ff.,** are not met.

5. 15A NCAC 2D .1111 MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY

Applicability [40 CFR 63.6585, 6590(a)(3)(iii)]

a. For the **diesel engine driven air compressor (ID Nos. ACDD-3)** (reconstructed stationary RICE located at an area source of HAP emissions)**,** the Permittee shall comply with all applicable provisions, including the monitoring, recordkeeping, and reporting contained in Environmental Management Commission Standard 15A NCAC 02D .1111 "Maximum Achievable Control Technology" (MACT) as promulgated in 40 CFR 63, Subpart ZZZZ, "National Emission Standards For Hazardous Air Pollutants For Stationary Reciprocating Internal Combustion Engines" and Subpart A "General Provisions."

Stationary RICE subject to Regulations under 40 CFR Part 60 [15 A NCAC 2Q. 0508(f)]

b. Pursuant to 40 CFR § 63.6590(c)(1), this source must meet the requirements of 40 CFR 63 Subpart ZZZZ and Subpart A by meeting the requirements of 40 CFR part 60 subpart IIII. No further requirements apply for these engines under 40 CFR 63 Subpart ZZZZ and Subpart A.

If the requirements in condition b., above, are not met, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .1111.

6. 15A NCAC 2D .0524: NEW SOURCE PERFORMANCE STANDARDS

Applicability [15A NCAC 2Q .0508(f), 40 CFR 60.4200(a)(3)]

a. For this reconstructed engine for the diesel engine driven air compressor (ID Nos. ACDD-3), the Permittee shall comply with all applicable provisions, including the requirements for emission standards, notification, testing, reporting, record keeping, and monitoring, contained in Environmental Management Commission Standard 15A NCAC 2D .0524 "New Source Performance Standards (NSPS)" as promulgated in 40 CFR Part 60 Subpart IIII, Standards of Performance for Stationary Compression Ignition Internal Combustion Engines," including Subpart A "General Provisions."

General Provisions [15A NCAC 2Q .0508(f)]

b. Pursuant to 40 CFR § 60.4218, The Permittee shall comply with the General Provisions of 40 CFR 60 Subpart A as presented in Table 8 of 40 CFR 60 Subpart IIII.

Emission Standards [15A NCAC 2Q .0508(f)]

c. The Permittee shall comply with the following emission standards:

Pollutant	Hydrocarbons (HC)	Nitrogen oxides (NOX)	Carbon monoxide (CO)	Particulate matter (PM)
Standards in (g/HP-hr)	1.0	6.9	8.5	0.40

[40 CFR § 60.4204(e)]

Fuel Requirements [15A NCAC 2Q .0508(f)]

d. The Permittee shall use diesel fuel in the engine with:
   i. a maximum sulfur content of 15 ppm; and
   ii. a minimum cetane index of 40 or a maximum aromatic content of 35 volume percent.
   [§60.4207(b) and 40 CFR § 80.510(b)]
   If the Permittee uses diesel fuel that does not meet the requirements above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0524.

Testing [15A NCAC 2Q .0508(f)]

e. i. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limits given in conditions c., above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0524.

ii. The Permittee may demonstrate compliance with NCAC 2D .0524 by conducting testing for CO emissions as required by MACT Subpart ZZZZ. Emissions shall be controlled by catalytic oxidizer with a reduction efficiency greater than or equal to 70% as per MACT Subpart ZZZZ table 2. The protocols for this testing to be followed is as discussed below:

1) EPA Reference Method 10 is acceptable to sample for CO. Simultaneous inlet and outlet testing is required for each exhaust manifold. Continuous sampling is required per the method during each run.
2) EPA Reference Method 3A shall be used to measure oxygen (O_2) simultaneously with the CO measurements.
3) Use a consistent parameter monitoring frequency interval throughout the test.
   a) Catalytic oxidizers - use inlet and outlet oxidizer pressure or differential pressure instruments that will be used for required routine monitoring. If the readings are steady, record pressures/differential pressure a minimum of every 15 minutes starting at the beginning of the test. If unsteady, continuously record pressure every one minute if possible, otherwise every five (5) minutes.
   b) Catalytic oxidizer inlet temperatures – continuous recording using calibrated/verified station instrument every one minute if possible, otherwise every 15 minutes beginning at the start of the test.
   c) Brake horsepower (load) during testing shall be documented. It should be recorded at least every 15 minutes beginning at the start of each test run.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0524 for failure to follow the above mentioned protocols.

f. **Reserved.**

Monitoring [15A NCAC 2Q .0508(f)]

g. The engine has the following monitoring requirements:
   i. The engine, if equipped with a diesel particulate filter, must be installed with a backpressure monitor that notifies the owner or operator when the high backpressure limit of the engine is approached. [§ 60.4209(b)]

Compliance Requirements [15A NCAC 2Q .0508(b)]

h. The Permittee shall, except as allowed by condition 2.1. I. 6. i., below:
   i. operate and maintain the engines and control devices (if applicable) according to the manufacturer's emission related-written instructions over the entire life of the engine;
   ii. change only those emission-related settings that are permitted by the manufacturer; and
   iii. meet the requirements of 40 CFR 89, 94 and/or 1068 as applicable.

   [40 CFR § 60.4206 and 60.4211(a)]

i. If the Permittee does not install, configure, operate, and maintain the engine and control device according to the manufacturer's emission-related written instructions, or changes the emission-related settings in a way that is not permitted by the manufacturer, the Permittee shall demonstrate compliance as follows:

   i. Keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions.
   ii. Conduct an initial performance test to demonstrate compliance with the applicable emission standards within 1 year of startup, or within 1 year after an engine and control device is no longer

installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within 1 year after you change emission-related settings in a way that is not permitted by the manufacturer.

iii. Conduct subsequent performance testing every 8,760 hours of engine operation or 3 years, whichever comes first, thereafter to demonstrate compliance with the applicable emission standards.

[40 CFR § 60.4211(g)(3)]

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0524, if the requirements in conditions g. through i. are not met.

Recordkeeping [15A NCAC 2Q .0508(f), §60.4214]

j. To ensure compliance, the Permittee shall perform inspections and maintenance on the engine pursuant to §§60.4206, 60.4211(a) and (e). The results of inspection and maintenance shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:
   i. the date and time of each recorded action;
   ii. the results of each inspection;
   iii. the results of any maintenance performed on the engine;
   iv. any variance from manufacturer's recommendations, if any, and corrections made;
   v. if a PM filter is used, records of any corrective action taken after the backpressure monitor has notified the owner or operator that the high backpressure limit of the engine is approached [§60.4214(c)]; and
   vi. documentation that the engine meets the emission standards in condition c., above.

k. The Permittee shall keep records of all notifications submitted to comply with this subpart and all documentation supporting any notification.
The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0524 if these records are not maintained.

Reporting [15A NCAC 2Q .0508(f)]

l. i. The Permittee shall submit an initial notification as required in 40 CFR § 60.7(a)(1). The notification must include the following information:
   (A) Name and address of the facility;
   (B) Engine information including make, model, engine family, serial number, model year, maximum engine power, and engine displacement;
   (C) Emission control equipment; and
   (D) Fuel used
   ii. The Permittee shall submit a summary report of monitoring and recordkeeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of noncompliance with the requirements of this permit shall be clearly identified.

7. 15A NCAC 02Q. 0317: AVOIDANCE CONDITIONS for 15A NCAC 02D. 0530: PREVENTION OF SIGNIFICANT DETERIORATION

a. i) In order to avoid applicability of 15A NCAC 02D .0530(g), these sources **(ID Nos. EGDD-3, EGDD-4 and EGDD-5)** shall discharge into the atmosphere less than 40 tons of NO_x emissions per consecutive 12-month period and
   ii) the total combined hours of operation of these sources **(ID Nos. EGDD-3, EGDD-4 and EGDD-5)** shall not exceed 2,100 hours per consecutive 12-month period

Testing [15A NCAC 02Q .0508(f)]

b. If emissions testing is required, the Permittee shall perform such testing in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 I. 7. a., above, the Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530.

Monitoring/Recordkeeping [15A NCAC 02Q .0508(f)]

c. The Permittee shall keep **monthly** records in a logbook (written or electronic format) of the hours of operations of the three diesel-fired peak shaving generators, 2,145 kilowatts each (ID Nos. EGDD-3, EGDD-4 and EGDD-5).
The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530 if the hours of operation of the three diesel-fired peak shaving generators are not monitored.

d. The Permittee shall Calculate monthly and recorded in a logbook (written or electronic format), to record the monthly hours of operation from these sources **(ID Nos. EGDD-3, EGDD-4 and EGDD-5).**
The Permittee shall use the latest AP-42 emissions factors to determine the monthly NO_x emissions based on the monthly hours of operation and the maximum kilowatt rating of these sources **(ID Nos. EGDD-3, EGDD-4 and EGDD-5).**
The Permittee shall be deemed in noncompliance with 15A NCAC 02D .0530 if these calculations are not made, or records are not kept or the NO_x emissions exceed the limit in Section 2.1 I. 7. a. i., above.

Reporting [15A NCAC 02Q .0508(f)]

e. The Permittee shall submit a summary report of monitoring and recordkeeping activities given in Section(s) 2.1 I. 7. C., and d., above postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. The report shall contain the following:
   i. The monthly NOx emissions for the previous 17 months. The emissions must be calculated for each of the 12-month periods over the previous 17 months and
   ii. The monthly total combined hours of operation of these sources **(ID Nos. EGDD-3, EGDD-4 and EGDD-5)** for the previous 17 months.

J. Temporary, back-up natural gas/No. 2 fuel oil-fired boiler(s) with a maximum permitted heat input rating of no greater than 100 million Btu per hour, total (ID No. UA-T1)

The following table provides a summary of limits and standards for the emission source(s) described above:

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	0.242 pounds per million Btu heat input	15A NCAC 2D .0503
Sulfur dioxide	2.3 pounds per million Btu heat input	15A NCAC 2D. 0516
Visible emissions	20 percent opacity	15A NCAC 2D. 0521
Sulfur dioxide	New Source Performance Standards for Small Industrial-Commercial-Institutional Steam Generating Units 0.5 percent sulfur content fuel oil	15A NCAC 2D. 0524 (40 CFR 60, Subpart Dc)
Visible emissions (boilers 30 million Btu per hour heat input firing fuel oil)	New Source Performance Standards for Small Industrial-Commercial-Institutional Steam Generating Units 20 percent opacity	15A NCAC 2D. 0524 (40 CFR 60, Subpart Dc)
PM PM_{10} SO_2 CO NOx	Less than 25 tons per consecutive 12-month period Less than 15 tons per consecutive 12-month period Less than 40 tons per consecutive 12-month period Less than 100 tons per consecutive 12-month period Less than 40 tons per consecutive 12-month period	15A NCAC 2Q .0317 of 2D .0530 (PSD Avoidance)
Toxic air pollutants	**State-enforceable only** **See Section 2.2 A.3**	15A NCAC 2Q .0711
Toxic air pollutants	**State-enforceable only** **See Section 2.2 A.4**	15A NCAC 2D .1100
Hazardous air pollutants	**See Section 2.2 A.5**	15A NCAC 2Q .0317 (MACT Avoidance)
Volatile organic compounds	**See Section 2.4 A.**	15A NCAC 2D .0530

1. 15A NCAC 2D .0503: PARTICULATES FROM FUEL BURNING INDIRECT HEAT EXCHANGERS

a. Emissions of particulate matter from the combustion of natural gas and No. 2 fuel oil, that are discharged from this source(s) **(ID No. UA-T1)** into the atmosphere shall not exceed 0.242 pounds per million Btu heat input.

Testing [15A NCAC 2Q .0508(f)]

b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 J.1.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0503.

Monitoring/Recordkeeping/Reporting [15A NCAC 2Q .0508(f)]

c. No monitoring/recordkeeping/reporting is required for particulate emissions from the firing of No.2 fuel oil or natural gas in this source(s) **(ID No. UA-T1)**.

2. 15A NCAC 2D .0516: SULFUR DIOXIDE EMISSIONS FROM COMBUSTION SOURCES

a. Emissions of sulfur dioxide from this source(s) **(ID No. UA-T1)** shall not exceed 2.3 pounds per million Btu heat input. Sulfur dioxide formed by the combustion of sulfur in fuels, wastes, ores, and other substances shall be included when determining compliance with this standard.

Testing [15A NCAC 2Q .0508(f)]

b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 J.2.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0516.

Monitoring/Recordkeeping/Reporting [15A NCAC 2Q .0508(f)]

c. No monitoring/recordkeeping/reporting is required for sulfur dioxide emissions from the firing of No.2 fuel oil or natural gas in this source(s) **(ID No. UA-T1)**.

3. 15A NCAC 2D .0521: CONTROL OF VISIBLE EMISSIONS

a. Visible emissions from any non-NSPS affected boiler, any natural gas-fired boiler, or any fuel oil-fired boiler with a maximum heat capacity less than 30 million Btu per hour shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity.

Testing [15A NCAC 2Q .0508(f)]

b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 J.3.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

Monitoring/Recordkeeping/Reporting [15A NCAC 2Q .0508(f)]

c. No monitoring/recordkeeping/reporting is required for visible emissions from the firing of No. 2 fuel oil or natural gas in this source(s) **(ID No. UA-T1)**.

4. 15A NCAC 2D .0524: NEW SOURCE PERFORMANCE STANDARDS

a. This source(s) **(ID No. UA-T1)** that meet the criteria listed below are affected sources under the "New Source Performance Standards" (NSPS) as promulgated in 40 CFR Part 60 Subpart Dc, including Subpart A "General Provisions":
   i. The source was constructed, reconstructed, or modified after June 9, 1989; and
   ii. The source has a maximum heat input capacity equal to or greater than 10 million Btu per hour.
   For Subpart Dc-affected sources, the Permittee shall comply with all applicable provisions, including the notification, testing, recordkeeping, and monitoring requirements contained in Environmental Management Commission Standard 15A NCAC 2D .0524.

Emission Limitations [15A NCAC 2D .0524]

b. The maximum sulfur content of any fuel oil received and fired in this source(s) **(ID Nos. UA-T1)** shall not exceed 0.5 percent by weight. [40 CFR 60.42c(d)]

c. For any Subpart Dc-affected source with a maximum heat input capacity of greater than or equal to 30 million Btu per hour, visible emissions shall not be more than 20 percent opacity when averaged over a six-minute period, except for one six-minute period per hour of not more than 27 percent opacity.

Testing [15A NCAC 2Q .0508(f)]

d. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above any limit given in Section 2.1 J.4.b or c above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0524.

e. Within 60 days of installing any temporary, back-up boiler firing No. 2 fuel oil and subject to the opacity limitation provided in Section 2.1 J.4.c above, the Permittee shall conduct a Method 9 test (6-

minute average of 24 observations) to determine the opacity of stack emissions. If the Permittee fails to conduct the opacity observation or if the results of the test are above the applicable limit, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0524.

Monitoring/Recordkeeping [15A NCAC 2Q .0508(f)]

f. The Permittee shall retain a copy of the fuel supplier certification for any No. 2 fuel oil fired in the affected source(s) **(ID No. UA-T1)**. The fuel supplier certification shall include the following information:
   i. The name of the oil supplier;
   ii. The sulfur content of the oil (in % by weight); and
   iii. A statement from the oil supplier that the oil complies with the specification under the definition of distillate oil in 40 CFR 60.41c.

   The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0524 if the sulfur content of the oil exceeds the limit provided in Section 2.1 J.4.b above or if fuel supplier certifications are not retained as described above.

g. In addition to any other recordkeeping required by 40 CFR 60.48c or recordkeeping requirements of the EPA, the Permittee shall record and maintain records of the amounts of each fuel fired during each calendar month in each NSPS affected boiler. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0524 if these records are not maintained.

Notifications/Reporting [15A NCAC 2Q .0508(f)]

h. The Permittee shall submit the following written notifications to the Regional Supervisor for any Subpart Dc affected temporary, back-up boiler **(ID No. UA-T1)**:
   i. An initial notification of the date of actual initial startup of the source(s) within 15 days of such date [40 CFR 60.7(a)(3)];
   ii. An opacity observation notification indicating the anticipated date that the Permittee will be conducting the Method 9 opacity observation, as required in Section 2.1 J.4.e above, at least 30 days prior to such date [40 CFR 60.7(a)(6), 40 CFR 60.8(d)]; and
   iii. Performance test results with the results of the Method 9 opacity observation, as required in Section 2.1. J.5.e above, shall be submitted within 30 days of the test.

i. In addition to any other reporting required by 40 CFR 60.48c or notification requirements to the EPA, the Permittee is required to provide a semiannual summary report, acceptable to the Regional Air Quality Supervisor, of the sulfur content of the distillate fuel oil fired, postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. The summary report shall include the following information:
   i. Fuel supplier certification(s) for distillate fuel oil, as provided in Section 2.1 J.4.f above;
   ii. A Certified statement signed by the owner or operator that the records of fuel supplier certification(s) submitted represents all of the fuel fired at the affected source(s) **(ID No. UA-T1)** during the semiannual period; and
   iii. All instances of deviations from the requirements of this permit must be clearly identified.

5. 15A NCAC 2Q. 0317: AVOIDANCE CONDITIONS for 15A NCAC 2D .0530: PREVENTION OF SIGNIFICANT DETERIORATION

a. To avoid applicability of 15A NCAC 2D .0530, "Prevention of Significant Deterioration," as requested by the Permittee, criteria pollutant emissions from this source(s) **(ID No. UA-T1)** shall be less than the following per consecutive 12-month period.

Pollutant	Emission Limit (tons)
Particulate (TSP)	25
PM10	15
Sulfur dioxide	40
Carbon monoxide	100
Nitrogen oxides	40

b. This source(s) **(ID Nos. UA-T1)** shall be limited to an annual No. 2 fuel oil usage and/or natural gas usage based on the fuel sulfur content as follows:

$$\sum_{i=1}^{12}\sum_{j=1}^{n}\frac{\left(Q_j \times 142 \times S_j\right)}{2000} + \sum_{i=1}^{12}\frac{\left(Q_n \times 0.6\right)}{2000} \left(40 tons\right)$$

Where:
i = a month in a consecutive 12-month period
Qj = the thousands of gallons of No. 2 fuel oil combusted with Sj sulfur content for month i
Q_n = the million cubic feet of natural gas combusted for month i
Sj = sulfur content in percent by weight for No. 2 fuel oil j
j = denotes all No. 2 fuel oil with the same sulfur content
n = denotes the number of No. 2 fuel oils combusted with different sulfur content
SO_2 AP-42 factor, Supplement E (No. 2 fuel oil) = 142 lbs SO_2/1000 gallons
SO_2 AP-42 factor, Supplement D (natural gas) = 0.6 lbs SO_2/million cubic feet

c. This source(s) **(ID Nos. UA-T1)** shall be limited to an annual No. 2 fuel usage and/or natural gas usage based on the nitrogen dioxide emissions as follows:

$$\sum_{i=1}^{12}\frac{\left(Q_j \times 20\right)}{2000} + \sum_{i=1}^{12}\frac{\left(Q_n \times 100\right)}{2000} \left\langle 40\ tons\right)$$

Where:
i = a month in a consecutive 12-month period
Qj = the thousands of gallons of No. 2 fuel oil combusted for month i
Q_n = the million cubic feet of natural gas combusted for month i
NO_x AP-42 factor, Supplement E (No. 2 fuel oil) = 20 lbs NO_x/1000 gallons
NO_x AP-42 factor, Supplement D (natural gas) = 100 lbs NO_x/million cubic feet

Monitoring/Recordkeeping [15A NCAC 2Q .0508(f)]

d. To ensure enforceability of the sulfur dioxide limit, calculation of sulfur dioxide emissions per month shall be made by the end of each month for the previous month. SO_2 emissions shall be determined in accordance with Section 2.1 J.5.b above. The calculations of the total monthly SO_2 emissions, total gallons of No. 2 fuel oil combusted, total cubic feet of natural gas combusted, and each corresponding vendor sulfur content certification (No. 2 fuel oil) must be recorded in a monthly emissions logbook (written or electronic format).

e. To ensure enforceability of the nitrogen dioxide limit, calculation of nitrogen dioxide emissions shall be made for each month. NO_x emissions shall be determined in accordance with Section 2.1 J.5.c above. The calculations of the total monthly NO_x emissions, total gallons of No. 2 fuel oil combusted, and total cubic feet of natural gas combusted, must be recorded in a monthly emissions logbook (written or electronic format).

f. In addition, the Permittee shall make available to officials of the Division of Air Quality, upon request, copies of the monthly emissions logbook. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if these records are not retained or if any criteria pollutant emissions exceed a limit in Section 2.1.J.5.a above.

Reporting [15A NCAC 2Q .0508(f)]

g. The Permittee shall submit a summary report of monitoring and recordkeeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. The report shall contain the following:
   i. The monthly sulfur dioxide and nitrogen oxide emissions for the previous 17 months. The emissions must be calculated for each of the 12-month periods over the previous 17 months;
   ii. The monthly quantities of natural gas and No. 2 fuel oil consumed for the previous 17 months; and
   iii. The average sulfur content of the No. 2 fuel oil.

h. Within 10 working days after the installation of any source(s) **(ID No. UA-T1)**, the Permittee shall notify in WRITING the Air Quality Regional Supervisor, Division of Air Quality, Raleigh Region of the installation. Such notice shall specify the size of the temporary boiler(s), it's(their) date(s) of manufacture.

K. Green tire dopers Nos. 11 through 22 (ID Nos. GT-11 through GT-22) and green tire dopers No. 23 and No. 24 (ID Nos. GT-23 and GT-24)

The following table provides a summary of limits and standards for the emission source(s) described above:

Regulated Pollutant	Limits/Standards	Applicable Regulation
Volatile organic compounds	New Source Performance Standards for the Rubber Tire Manufacturing Industry Inside spray - 1.2 grams of VOC per tire, monthly average Outside spray - 9.3 grams per tire, monthly average [40 CFR § 60.542(a)(7)]	15A NCAC 2D .0524 (40 CFR 60, Subpart BBB)
Odors	**State-enforceable only** **See Section 2.2 A.2**	15A NCAC 2D .1806
Toxic air pollutants	**(ID No. GT-11 only)** **State-enforceable only** **See Section 2.2 A.3**	15A NCAC 2Q .0711
Toxic air pollutants	**(ID No. GT-11 only)** **State-enforceable only** **See Section 2.2 A.4**	15A NCAC 2D .1100

Regulated Pollutant	Limits/Standards	Applicable Regulation
Hazardous air pollutants	**See Section 2.2 A.5**	15A NCAC 2Q .0317 (MACT Avoidance)
Volatile organic compounds	**See Section 2.4 A.**	15A NCAC 2D .0530

1. 15A NCAC 2D .0524: NEW SOURCE PERFORMANCE STANDARDS

a. The Permittee shall maintain total (uncontrolled) VOC use less than or equal to the levels specified below for these sources **(ID Nos. GT-11 through GT-22 and GT-23 and GT-24)**:
   i. Inside spray - 1.2 grams of VOC per tire, monthly average.
   ii. Outside spray - 9.3 grams of VOC per tire, monthly average.
   [40 CFR § 60.542(a)(7)]

Monitoring/Recordkeeping [40 CFR 60.545(f) and 15A NCAC 2Q .0508(f)]

b. The Permittee shall maintain formulation data or EPA reference Method 24 analysis data demonstrating that the green tire sprays contain less than 1.0 percent by weight of VOC. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0524 if these records are not maintained or, the formulation data or EPA reference Method 24 analysis data indicate that the green tire sprays contain equal or more than 1.0 percent by weight of VOC.
c. The Permittee shall comply with all applicable recordkeeping requirements in 40 CFR 60.7. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0524 if these records are not maintained.

Reporting [40 CFR 60.543(b)(4), 40 CFR 60.546(j), and 15A NCAC 2Q .0508(f)]

d. In addition to any other notification requirements to the Environmental Protection Agency (EPA), the Permittee is required to NOTIFY the Regional Supervisor, DAQ, in WRITING, of the date construction (40 CFR 60.7) or reconstruction (40 CFR 60.15) of an affected facility **(ID Nos. GT-17 through GT-22 and GT-23 and GT-24)** is commenced, postmarked no later than 30 days after such date; and the actual date of initial start-up of an affected facility **(ID Nos. GT-17 through GT-22 and GT-23 and GT-24)**, postmarked within 15 days after such date.
e. The Permittee shall submit to the DAQ within 60 days initially and annually thereafter, formulation data or EPA reference method 24 analysis data demonstrating that the green tire sprays contain less than 1.0 percent by weight VOC.
f. If the spray material formulation changes before the end of the 12-month period, formulation data or Method 24 analysis of the new spray shall be conducted to determine the VOC content of the spray and reported within 30 days of the change to the DAQ.
g. The Permittee shall submit a summary report of monitoring and recordkeeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

L. Side wall cementing operation (ID No. SW-3)

The following table provides a summary of limits and standards for the emission source(s) described above:

Regulated Pollutant	Limits/Standards	Applicable Regulation
Volatile organic compounds	New Source Performance Standards for the Rubber Tire Manufacturing Industry Maintain total (uncontrolled) VOC use less than or equal to the levels specified below, depending upon the duration of the compliance period: 3,220 kg (7,099 lb) of VOC per 28 days, 3,340 kg (7,363 lb) of VOC per 29 days, 3,450 kg (7,606 lb) of VOC per 30 days, 3,570 kg 7,870 lb) of VOC per 31 days, or 4,030 kg (8,885 lb) of VOC per 35 days. [40 CFR 60.542(a)(2)(ii)]	15A NCAC 2D .0524 (40 CFR 60, Subpart BBB)
Odors	**State-enforceable only** **See Section 2.2 A.2**	15A NCAC 2D .1806
Toxic air pollutants	**State-enforceable only** **See Section 2.2 A.3**	15A NCAC 2Q .0711
Toxic air pollutants	**State-enforceable only** **See Section 2.2 A.4**	15A NCAC 2D .1100
Hazardous air pollutants	**See Section 2.2 A.5**	15A NCAC 2Q .0317 (MACT Avoidance)
Volatile organic compounds	**See Section 2.4 A.**	15A NCAC 2D .0530

1. 15A NCAC 2D .0524: NEW SOURCE PERFORMANCE STANDARDS

a. The Permittee shall maintain total (uncontrolled) VOC use less than or equal to the levels specified below for this source **(ID No. SW-3)**:
   i. 3,220 kg (7,099 lb) of VOC per 28 days,
   ii. 3,340 kg (7,363 lb) of VOC per 29 days,
   iii. 3,450 kg (7,606 lb) of VOC per 30 days,
   iv. 3,570 kg (7,870 lb) of VOC per 31 days, or
   v. 4,030 kg (8,885 lb) of VOC per 35 days depending upon the duration of the compliance period.
   [40 CFR 60.542(a)(2)(ii)]

Monitoring/Recordkeeping [40 CFR 60.543(c)]

b. The Permittee shall use the following procedure to determine compliance with the VOC emission limit specified in Section 2.1 L.1.a above.
   i. Determine the density and weight fraction of VOC (including dilution VOC) of each type of cement from its formulation or by analysis of the cement using EPA reference method 24.
   ii. Calculate the total mass of VOC used at the affected facility for the month (Mo) as specified below by the end of each month for the previous month.
      A. For each affected facility for which cement is delivered in batch or via a distribution system that serves only the affected facility:

$$M_o = \sum_{i=1}^{a} Lc_i \; Dc_i \; Wo_i$$

Where:

a = the number of different cements used during the month that are delivered in batch or via a distribution system that serves only a single affected facility
Lc_i = the volume of cement "i" used for a month in liters
Dc_i = the density of cement "i" in grams per liter
Wo_i = weight fraction of VOC in cement "i"
Mo = total mass of VOC used at an affect facility for a month in grams

B. For each affected facility for which cement is delivered via a common distribution system that also serves other affected or existing facilities:
   (1) Calculate the total mass of VOC used for all of the facilities served by the common distribution system for the month (M):

$$M = \sum_{i=1}^{b} Lc_i \; Dc_i \; Wo_i$$

Where:
b = equals the number of different cements or green tire sprays used during the month that are delivered via a common distribution system that also serves other affected or existing facilities.
Lc_i = the volume of cement "i" used for a month in liters.
Dc_i = the density of cement "i" in grams per liter.
Wo_i = weight fraction of VOC in cement "i".
M = total mass of VOC used for a month by all facilities served by a common cement distribution system.

   (2) Determine the fraction (Fo) of M used at the affected facility by comparing the production records and process specifications for the material cemented at the affected facility for the month to the production records and process specifications for the material cemented at all other facilities served by the common distribution system for the month or by another procedure acceptable to the DAQ.
   (3) Calculate the total monthly mass of VOC used at the affected facility for the month (Mo): Mo = MFo

iii. Determine the time duration of the monthly time period (Td).

The Permittee shall be deemed in non-compliance with 15 NCAC 2D .0524 if the required determinations are not completed and documented, or if emissions exceed the limit(s) in Section 2.1 L.1.a above.

Reporting [15A NCAC 2Q .0508(f)]

c. The Permittee shall submit a summary report of any exceedance of the mass of VOC used (Mo) for each monthly time period and the corresponding number of days in the respective time period. The report shall be postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of deviations from the requirements of this permit must be clearly identified.

M. Two extrusion line (ID Nos. TUC-3 and TU-4)

The following table provides a summary of limits and standards for the emission source(s) described above:

Regulated Pollutant	Limits/Standards	Applicable Regulation
Particulate matter	For process rates up to 30 tons per hour: $E = 4.10 \times P^{0.67}$ For process rates greater than 30 tons per hour: $E = 55.0 \times P^{0.11} - 40$ Where: E = allowable emission rate in pounds per hour P = process weight in tons per hour	15A NCAC 2D .0515
Visible emissions	20 percent opacity	15A NCAC 2D .0521
Odors	**State-enforceable only** **See Section 2.2 A.2**	15A NCAC 2D .1806
Toxic air pollutants	**State-enforceable only** **See Section 2.2 A.3**	15A NCAC 2Q .0711
Toxic air pollutants	**State-enforceable only** **See Section 2.2 A.4**	15A NCAC 2D .1100
Hazardous air pollutants	**See Section 2.2 A.5**	15A NCAC 2Q .0317 (MACT Avoidance)
Volatile organic compounds	**See Section 2.4 A.**	15A NCAC 2D .0530

1. 15A NCAC 2D .0515: PARTICULATES FROM MISCELLANEOUS INDUSTRIAL PROCESSES

a. Emissions of particulate matter from this source **(ID Nos. TUC-3 and TU-4)** shall not exceed an allowable emission rate as calculated by the following equations:

For process rates up to 30 tons per hour:
$E = 4.10 \times P^{0.67}$
For process rates greater than 30 tons per hour:
$E = 55.0 \times P^{0.11} - 40$
Where: E = allowable emission rate in pounds per hour
P = process weight in tons per hour

Liquid and gaseous fuels and combustion air are not considered as part of the process weight.

Testing [15A NCAC 2Q .0508(f)]

b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 K.1.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0515.

Monitoring/Recordkeeping/Reporting [15A NCAC 2Q .0508(f)]

c. No monitoring/recordkeeping/reporting is required for particulate emissions from this source **(ID Nos. TUC-3 and TU-4)**.

2. 15A NCAC 2D .0521: CONTROL OF VISIBLE EMISSIONS

a. Visible emissions from this source **(ID Nos. TUC-3 and TU-4)** shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity.

Testing [15A NCAC 2Q .0508(f)]

b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 F.4.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0521.

Monitoring/Recordkeeping/Reporting [15A NCAC 2Q .0508(f)]

c. No monitoring/recordkeeping/reporting is required for visible emissions from this source **(ID Nos. TUC-3 and TU-4)**.

N. Two diesel-fired emergency fire pump engines (ID Nos. ES-4.5 and ES-4.6)

The following table provides a summary of limits and standards for the emission source(s) described above:

Regulated Pollutant	Limits/Standards	Applicable Regulation
Sulfur dioxide	2.3 pounds per million Btu heat input	15A NCAC 2D .0516
Visible emissions	20 percent opacity	15A NCAC 2D .0521
Hazardous air pollutants	**(ID Nos. ES-4.5 and ES-4.6 only)** National Emission Standards for Hazardous Air Pollutants for Reciprocating Internal Combustion Engines -Per 40 CFR 63.6590(c)(6), compliance with MACT is achieved by compliance with NSPS (40 CFR 60, Subpart IIII)	15A NCAC 2D .1111 (40 CFR 63, Subpart ZZZZ) 15A NCAC 2D .0524 (40 CFR 60, Subpart IIII)
Toxic air pollutants	**State-enforceable only** **See Section 2.2 A.3**	15A NCAC 2Q .0711
Toxic air pollutants	**State-enforceable only** **See Section 2.2 A.4**	15A NCAC 2D .1100
Hazardous air pollutants	**See Section 2.2 A.5**	15A NCAC 2Q .0317 (MACT Avoidance)
Volatile organic compounds	**See Section 2.4 A.**	15A NCAC 2D .0530

1. 15A NCAC 2D .0516: SULFUR DIOXIDE EMISSIONS FROM COMBUSTION SOURCES

a. Emissions of sulfur dioxide from these sources **(ID Nos. ES-4.5 through ES-4.6)** shall not exceed 2.3 pounds per million Btu heat input. Sulfur dioxide formed by the combustion of sulfur in fuels, wastes, ores, and other substances shall be included when determining compliance with this standard.

Testing [15A NCAC 2Q .0508(f)]

b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 N.1.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0516.

Monitoring/Recordkeeping/Reporting [15A NCAC 2Q .0508(f)]

c. No monitoring/recordkeeping/reporting is required for sulfur dioxide emissions from the firing of diesel fuel in these sources **(ID No. ES-4.5 through ES-4.6)**.

2. 15A NCAC 2D .0521: CONTROL OF VISIBLE EMISSIONS

a. Visible emissions from these sources **(ID Nos. ES-4.5 through ES-4.6)** shall not be more than 20 percent opacity when averaged over a six-minute period. However, six-minute averaging periods may exceed 20 percent not more than once in any hour and not more than four times in any 24-hour period. In no event shall the six-minute average exceed 87 percent opacity.

Testing [15A NCAC 2Q .0508(f)]

b. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limit given in Section 2.1 N.2.a above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0516.

Monitoring/Recordkeeping/Reporting [15A NCAC 2Q .0508(f)]

c. No monitoring/recordkeeping/reporting is required for visible emissions from the firing of diesel fuel in these sources **(ID Nos. ES-4.5 through ES-4.6)**.

3. Reserved

4. 15A NCAC 2D .1111: MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY

Applicability [40 CFR 63.6585, 6590(a)(2)(iii)]

a. For these engines (**ID Nos. ES-4.5 and ES-4.6)** (stationary RICE located at an area source of HAP emissions) the Permittee shall comply with all applicable provisions, including the monitoring, recordkeeping, and reporting contained in Environmental Management Commission Standard 15A NCAC 02D .1111 "Maximum Achievable Control Technology" (MACT) as promulgated in 40 CFR 63, Subpart ZZZZ, "National Emission Standards For Hazardous Air Pollutants For Stationary Reciprocating Internal Combustion Engines" and Subpart A "General Provisions."

Stationary RICE subject to Regulations under 40 CFR Part 60 [15 A NCAC 2Q. 0508(f)]

b. Pursuant to 40 CFR 63.6590(c)(1), these engines must meet the requirements of 40 CFR 63 Subpart ZZZZ and Subpart A by meeting the requirements of 40 CFR part 60 subpart IIII. No further requirements apply for these engines under 40 CFR 63 Subpart ZZZZ and Subpart A.

If the requirements in condition b. are not met, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .1111.

5. 15A NCAC 2D .0524: NEW SOURCE PERFORMANCE STANDARDS

Applicability [15A NCAC 2Q .0508(f), 40 CFR 60.4200(a)(2)(ii)]

a. For these engines (**ID Nos. ES-4.5 and ES-4.6)**, the Permittee shall comply with all applicable provisions, including the requirements for emission standards, notification, testing, reporting, record keeping, and monitoring, contained in Environmental Management Commission Standard 15A NCAC 2D .0524 "New Source Performance Standards (NSPS)" as promulgated in 40 CFR Part 60 Subpart IIII, Standards of Performance for Stationary Compression Ignition Internal Combustion Engines," including Subpart A "General Provisions."

General Provisions [15A NCAC 2Q .0508(f)]

b. Pursuant to 40 CFR 60 .4218, The Permittee shall comply with the General Provisions of 40 CFR 60 Subpart A as presented in Table 8 of 40 CFR 60 Subpart IIII.

Emission Standards [15A NCAC 2Q .0508(f)]

c. The Permittee shall comply with the emission standards in Table 4 of NSPS subpart IIII for all pollutants, for the same model year and maximum engine power for this engine. [40CFR 60.4205(c)]

Fuel Requirements [15A NCAC 2Q .0508(f)]

d. The Permittee shall use diesel fuel in the engine with:

i. a maximum sulfur content of 15 ppm; and

ii. a minimum cetane index of 40 or a maximum aromatic content of 35 volume percent.

[40 CFR 60.4207(b) and 40 CFR 80.510(b)]

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0524 if the requirements in

condition d. are not met.

Testing [15A NCAC 2Q .0508(f)]

e. If emissions testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this test are above the limits given in conditions c. and d. above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0524.

Monitoring [15A NCAC 2Q .0508(f)]

f. The engine has the following monitoring requirements:
   i. The engines shall be equipped with a non-resettable hour meter prior to startup. [40CFR 60.4209(a)]
   ii. The engine, if equipped with a diesel particulate filter, must be installed with a backpressure monitor that notifies the owner or operator when the high backpressure limit of the engine is approached. [40CFR 60.4209(b)]

Compliance Requirements [15A NCAC 2Q .0508(b)]

g. The Permittee shall:
   i. operate and maintain the engines and control devices according to the manufacturer's emission related-written instructions over the entire life of the engine;
   ii. change only those emission-related settings that are permitted by the manufacturer; and
   iii. meet the requirements of 40 CFR 89, 94 and/or 1068 as applicable.

   [40CFR 60.4206 and 60.4211(a)]

h. The Permittee shall comply with the emission standards in condition c. by purchasing an engine certified to the emission standards in condition c. The engine shall be installed and configured according to the manufacturer's emission-related specifications. [40CFR 60.4211(c)]

i. In order for the engine to be considered an emergency stationary ICE under this condition, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non- emergency situations for 50 hours per year, as described below, is prohibited.
   (1) There is no time limit on the use of emergency stationary ICE in emergency situations.
   (2) The Permittee may operate the emergency stationary ICE for any combination of the purposes specified in paragraphs (i(2)(i) through (iii) of this condition for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraph (i)(3) of this condition counts as part of the 100 hours per calendar year allowed by this paragraph (i)(2).
      (i) Emergency stationary ICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency ICE beyond 100 hours per calendar year.
      (ii) Emergency stationary ICE may be operated for emergency demand response for periods in which the Reliability Coordinator under the North American Electric Reliability Corporation (NERC) Reliability Standard EOP–002–3, Capacity and Energy Emergencies (incorporated by reference, see 40 CFR 60.17), or other authorized entity as determined by the Reliability Coordinator, has declared an Energy Emergency Alert Level 2 as defined in the NERC Reliability Standard EOP–002–3.
      (iii) Emergency stationary ICE may be operated for periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency.
   (3) Emergency stationary ICE may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours

per calendar year for maintenance and testing and emergency demand response provided in paragraph (i)(2) of this condition. Except as provided in paragraph (i)(3)(i) of this condition, the 50 hours per calendar year for non- emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

(i) The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all of the following conditions are met:

(A) The engine is dispatched by the local balancing authority or local transmission and distribution system operator;

(B) The dispatch is intended to mitigate local transmission and/or distribution limitations so as to avert potential voltage collapse or line overloads that could lead to the interruption of power supply in a local area or region.

(C) The dispatch follows reliability, emergency operation or similar protocols that follow specific NERC, regional, state, public utility commission or local standards or guidelines.

(D) The power is provided only to the facility itself or to support the local transmission and distribution system.

(E) The owner or operator identifies and records the entity that dispatches the engine and the specific NERC, regional, state, public utility commission or local standards or guidelines that are being followed for dispatching the engine. The local balancing authority or local transmission and distribution system operator may keep these records on behalf of the engine owner or operator.

[40CFR 60.4211(f)]

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0524, if the requirements in conditions f. through i. are not met.

Recordkeeping [15A NCAC 2Q .0508(f)]

j. To ensure compliance, the Permittee shall perform inspections and maintenance on the engine as recommended by the manufacturer per 40 CFR 60.4206 and 40 CFR 60.4211(a). The results of inspection and maintenance shall be maintained in a logbook (written or electronic format) on-site and made available to an authorized representative upon request. The logbook shall record the following:

i. the date and time of each recorded action;

ii. the results of each inspection;

iii. the results of any maintenance performed on the engine;

iv. any variance from manufacturer's recommendations, if any, and corrections made;

v. the hours of operation of the engine in emergency and non-emergency service. [40 CFR 60.4214(b)]

vi. if a PM filter is used, records of any corrective action taken after the backpressure monitor has notified the owner or operator that the high backpressure limit of the engine is approached [40 CFR60.4214(c)]; and

vii. documentation from the manufacturer that the engine is certified to meet the emission standards in condition c.

The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0524 if these records are not maintained.

Reporting [15A NCAC 2Q .0508(f)]

k. The Permittee shall submit a summary report of monitoring and recordkeeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and

December and July 30 of each calendar year for the preceding six-month period between January and June. All instances of noncompliance with the requirements of this permit shall be clearly identified.

l. If the Permittee owns or operates an emergency stationary CI ICE with a maximum engine power more than 100 HP that operates or is contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in conditions (i)(2)(ii) and (iii) or that operates for the purposes specified in condition(i)(3)(i), the Permittee shall submit an annual report according to the requirements at 40 CFR 60.4214(d). Thus report must be submitted to the Regional Supervisor and the EPA. [40 CFR60.4214(d)]

2.2 - Multiple Emission Source(s) Specific Limitations and Conditions

A. Facility-wide affected sources

The following table provides a summary of limits and/or standards for the emission source(s) described above.

Regulated Pollutant	Limits/Standards	Applicable Regulation
Odors	**State-enforceable only** Odorous emissions must be controlled	15A NCAC 2D .1806
Toxic air pollutants	**State-enforceable only** Facility wide emissions limits for toxic air pollutant emission rates	15A NCAC 2Q .0711
Toxic air pollutants	**State-enforceable only** Individual source emission limits for compliance with toxic air pollutant acceptable ambient levels	15A NCAC 2D .1100
Hazardous air pollutants	Less than 10 tons per year of any HAP, and Less than 25 tons per year of a combination of HAPs	15A NCAC 2Q .0317 (MACT Avoidance)

1. Reserved

State-enforceable only

2. 15A NCAC 2D .1806: CONTROL AND PROHIBITION OF ODOROUS EMISSIONS

The Permittee shall not operate the facility without implementing management practices or installing and operating odor control equipment sufficient to prevent odorous emissions from the facility from causing or contributing to objectionable odors beyond the facility's boundary.

State-enforceable only

3. 15A NCAC 2Q .0711: EMISSION RATES REQUIRING A PERMIT - The Permittee has made a demonstration that facility-wide actual emissions of the below listed toxic air pollutants (TAPs) do not exceed the Toxic Permit Emission Rates (TPERs) listed in 15A NCAC 2Q .0711. The facility shall be operated and maintained in such a manner that emissions of any listed TAPs from the facility, including fugitive emissions, will not exceed TPERs listed in 15A NCAC 2Q .0711.

a. A permit to emit any of the below listed TAPs shall be required for this facility if actual emissions from all sources will become greater than the corresponding TPERs.
b. PRIOR to exceeding any of these listed TPERs, the Permittee shall be responsible for obtaining a permit to emit TAPs and for demonstrating compliance with the requirements of 15A NCAC 2D.1100 "Control of Toxic Air Pollutants".
c. In accordance with the approved application, the Permittee shall maintain records of operational information demonstrating that the TAP emissions do not exceed the TPERs as listed below:

Pollutant (CAS Number)	TPERs Limitations			
	Carcinogens (lb/year)	Chronic Toxicants (lb/day)	Acute Systemic Toxicants (lb/hour)	Acute Irritants (lb/hour)
Acetaldehyde (75-07-0)				6.8
Acrolein (107-02-8)				0.02
Benzo(a)pyrene 50-32-8	2.2			
Carbon tetrachloride (56-23-5)	460			
Cresol (1319-77-3)			0.56	
Dichlorodifluoromethane (75-71-8)		5200		
1,4-Dioxane (123-91-1)		12		
Ethyl acetate (141-78-6)			36	
Ethylene dichloride (107-06-02)	260			
Formaldehyde (50-00-0)				0.04
Hexane isomers				92
n-Hexane (110-54-3)		23		
Methyl chloroform (71-55-6)		250		64
Methyl ethyl ketone (78-93-3)		78		22.4
Methyl isobutyl ketone (108-10-1)		52		7.6
Perchloroethylene (127-18-4)	13,000			
Phenol (108-95-2)			0.24	
Styrene (100-42-5)			2.7	
Toluene (108-88-3)		98		14.4
Trichloro-1,2,2-trifluoroethane, 1,1,2 (76-13-1)				240
Trichlorofluoromethane (75-69-4)			140	
Trichloroethylene (79-01-6)	4,000			
Vinylidene chloride (75-35-4)		2.5		

Pollutant (CAS Number)	TPERs Limitations			
	Carcinogens (lb/year)	Chronic Toxicants (lb/day)	Acute Systemic Toxicants (lb/hour)	Acute Irritants (lb/hour)
Xylene (1330-20-7)		57		16.4

State-enforceable only

4. 15A NCAC 2D .1100: CONTROL OF AIR TOXICS - Pursuant to 15A NCAC 2D .1100 and in accordance with the approved application for an air toxic compliance demonstration, the following emission limits shall not be exceeded:

Source Description	Source ID	Toxic Air Pollutant	Emission Rate
DC-1 Bag Filter - Banbury 621 Final Mix Discharge Area	DC-1 (BD-1)	Benzene 1,3-Butadiene Cadmium n-Hexane Nickel	5.67 lb/yr 58.9 lb/yr 3.27 lb/yr 111 lb/day 0.0410 lb/day
DC-2 Bag Filter - Carbon Black Transfer from BT-1 to Banbury Mixer 622; Banbury 622 Charging; Banbury 622 Discharging	BT-2, BC-2, BD-2	Aniline Benzene 1,3-Butadiene Cadmium Carbon Disulfide Di(2-ethylhexyl) phthalate Methylene Chloride n-Hexane Nickel	0.0410 lb/hr 11.3 lb/yr 118 lb/yr 6.54 lb/yr 85.5 lbs/day 1.85 lb/day 0.94 lb/hr 8120 lb/yr 223 lb/day 0.0820 lb/day
DC-3 Bag Filter - Pigment Bin Loading and Automated Weighing System	RCS-2	Cadmium Formaldehyde Sulfuric Acid	0.249 lb/yr 0.215 lb/hr 0.000227 lb/hr 0.00260 lb/day
DC-4 Bag Filter - Banbury 621 Charging	BC-1	Aniline Benzene 1,3-Butadiene Cadmium Carbon Disulfide Di(2-ethylhexyl) phthalate Methylene Chloride n-Hexane Nickel	0.02 lb/hr 5.67 lb/yr 58.9 lb/yr 3.27 lb/yr 42.7 lb/day 0.93 lb/day 0.47 lb/hr 4060 lb/yr 111 lb/day 0.0410 lb/day
DC-5 Bag Filter - Chemical Bin Loading	RCS-1	Cadmium Formaldehyde Sulfuric Acid	0.249 lb/yr 0.215 lb/hr 0.000227 lb/hr 0.00260 lb/day
DC-6 Bag Filter - Manual Chemical Weighing Station from Chemical Bins	CW-1	Cadmium Formaldehyde Sulfuric Acid	0.249 lb/yr 0.215 lb/hr 0.000227 lb/hr 0.00260 lb/day

Source Description	Source ID	Toxic Air Pollutant	Emission Rate
TB-3 Bag Filter - Banbury 273 Charging	BC-3	Aniline	0.012 lb/hr
		Benzene	3.39 lb/yr
		1,3-Butadiene	35.2 lb/yr
		Cadmium	1.96 lb/yr
		Carbon Disulfide	25.5 lb/day
		Di(2-ethylhexyl) phthalate	0.55 lb/day
		Methylene Chloride	0.28 lb/hr 2430 lb/yr
		n-Hexane	66.5 lb/day
		Nickel	0.0245 lb/day
Banbury 273 Discharging	BD-3	Aniline	0.012 lb/hr
		Benzene	3.39 lb/yr
		1,3-Butadiene	35.2 lb/yr
		Cadmium	1.96 lb/yr
		Carbon Disulfide	25.5 lb/day
		Di(2-ethylhexyl) phthalate	0.55 lb/day
		Methylene Chloride	0.28 lb/hr 2430 lb/yr
		n-Hexane	66.5 lb/day
		Nickel	0.0245 lb/day
Banbury 273 Rubber Mixing & Slab Cooling	TK-3	Aniline	0.012 lb/hr
		Benzene	3.39 lb/yr
		1,3-Butadiene	35.2 lb/yr
		Cadmium	1.96 lb/yr
		Carbon Disulfide	25.5 lb/day
		Di(2-ethylhexyl) phthalate	0.55 lb/day
		Methylene Chloride	0.28 lb/hr 2430 lb/yr
		n-Hexane	66.5 lb/day
		Nickel	0.0245 lb/day
Banbury 621 Slab Dip Tank & Cooling	RM-2	Aniline	0.02 lb/hr
		Benzene	5.67 lb/yr
		1,3-Butadiene	58.9 lb/yr
		Cadmium	3.27 lb/yr
		Carbon Disulfide	42.7 lb/day
		Di(2-ethylhexyl) phthalate	0.93 lb/day
		Methylene Chloride	0.47 lb/hr 4060 lb/yr
		n-Hexane	111 lb/day
		Nickel	0.0410 lb/day
Banbury 622 Slab Dip Tank & Cooling	RM-3	Aniline	0.02 lb/hr
		Benzene	5.67 lb/yr
		1,3-Butadiene	58.9 lb/yr
		Cadmium	3.27 lb/yr
		Carbon Disulfide	42.7 lb/day
		Di(2-ethylhexyl) phthalate	0.93 lb/day
		Methylene Chloride	0.47 lb/hr 4060 lb/yr
		n-Hexane	111 lb/day
		Nickel	4.76 lb/day
Banbury 624 Rubber Mixing & Slab Forming	I-RM-4	Aniline	0.027 lb/hr
		Benzene	7.56 lb/yr
		1,3-Butadiene	78.5 lb/yr
		Cadmium	4.36 lb/yr
		Carbon Disulfide	57 lb/day
		Di(2-ethylhexyl) phthalate	1.23 lb/day
		Methylene Chloride	0.62 lb/hr 5420 lb/yr
		n-Hexane	148 lb/day
		Nickel	0.0547 lb/day

Source Description	Source ID	Toxic Air Pollutant	Emission Rate
N-2 Bag Filter - Banbury 624 Remix & Final Mix Charging; Banbury 624 Remix & Final Mix Discharging	BC-4, BD-4	Aniline Benzene 1,3-Butadiene Cadmium Carbon Disulfide Di(2-ethylhexyl) phthalate Methylene Chloride n-Hexane Nickel	0.027 lb/hr 7.56 lb/yr 78.5 lb/yr 4.36 lb/yr 57 lb/day 1.23 lb/day 0.62 lb/hr 5420 lb/yr 148 lb/day 0.0547 lb/day
N-1 Bag Filter - Carbon Black Transfer from BT-1 to Banbury Mixer 624; Banbury 624 Master Batch Charging; Banbury 624 Master Batch Discharging	BT-4, BC-4, BD-4	Aniline Benzene 1,3-Butadiene Cadmium Carbon Disulfide Di(2-ethylhexyl) phthalate Methylene Chloride n-Hexane Nickel	0.027 lb/hr 7.56 lb/yr 78.5 lb/yr 4.36 lb/yr 57 lb/day 1.23 lb/day 0.62 lb/hr 5420 lb/yr 148 lb/day 0.0547 lb/day
Rubber Cement Mixing	RCM-1	Benzene Methylene Chloride n-Hexane	21.7 lb/yr 0.60 lb/hr 5240 lb/yr 0.329 lb/day
No. 4 Extrusion Line Undertread Cementing	UT-2	Aniline Benzene 1,3-Butadiene Carbon Disulfide Di(2-ethylhexyl) phthalate Methylene Chloride n-Hexane Nickel	0.076 lb/hr 288 lb/yr 2110 lb/yr 13.6 lb/day 2.38 lb/day 3.44 lb/hr 29800 lb/yr 60.5 lb/day 0.370 lb/day
No. 1 Extrusion Line Undertread Cementing	UT-1	Aniline Benzene 1,3-Butadiene Carbon Disulfide Di(2-ethylhexyl) phthalate Methylene Chloride n-Hexane Nickel	0.085 lb/hr 322 lb/yr 2360 lb/yr 15.2 lb/day 2.66 lb/day 3.85 lb/hr 33347 lb/yr 67.7 lb/day 0.413 lb/day
FI-T Fume Incinerator - No. 5 Extrusion Line Undertread Cementing	UT-3	Aniline Benzene 1,3-Butadiene Carbon Disulfide Di(2-ethylhexyl) phthalate Methylene Chloride n-Hexane Nickel	0.063 lb/hr 237 lb/yr 1740 lb/yr 11.2 lb/day 1.96 lb/day 2.83 lb/hr 24600 lb/yr 49.9 lb/day 0.304 lb/day
Side Wall Cementing	SW-3	Benzene	48.8 lb/yr
4-Roll Calender Exhaust	C-1	Aniline Benzene 1,3-Butadiene Carbon Disulfide Di(2-ethylhexyl) phthalate Methylene Chloride n-Hexane	0.0058 lb/hr 16.4 lb/yr 42.3 lb/yr 21.9 lb/day 3.32 lb/day 2.23 lb/hr 19300 lb/yr 1620 lb/day

Source Description	Source ID	Toxic Air Pollutant	Emission Rate
3-Roll Calender Exhaust and No. 1 & No. 2 Bead Cementing Exhaust	C-2, BCO-1, BCO-2	Aniline Benzene 1,3-Butadiene Carbon Disulfide Di(2-ethylhexyl) phthalate Methylene Chloride n-Hexane	0.0058 lb/hr 116 lb/yr 42.3 lb/yr 21.9 lb/day 3.32 lb/day 2.23 lb/hr 19300 lb/yr 1620 lb/day
New 4-Roll Calender Exhaust	C-3	Aniline Benzene 1,3-Butadiene Carbon Disulfide Di(2-ethylhexyl) phthalate Methylene Chloride n-Hexane	0.005 lb/hr 14.0 lb/yr 36.2 lb/yr 18.8 lb/day 2.84 lb/day 1.91 lb/hr 16600 lb/yr 1390 lb/day
4 Roll Calender Mill Exhaust (9 Rubber Mills)	RMC1 to RMC9	Acrylonitrile Aniline Benzene Carbon Disulfide Di(2-ethylhexyl) phthalate Methylene Chloride n-Hexane	355 lb/yr 1.07 lb/hr 25.3 lb/yr 25.8 lb/day 10.8 lb/day 0.26 lb/hr 2270 lb/yr 94.5 lb/day
New 4-Roll Calender Mill Exhaust (2 new rubber mills) and new Extruder Exhaust	RMC10 to RMC11, TUC-3	Acrylonitrile Aniline Benzene Carbon Disulfide Di(2-ethylhexyl) phthalate Methylene Chloride n-Hexane	355 lb/yr 1.12 lb/hr 31.0 lb/yr 25.8 lb/day 10.9 lb/day 0.33 lb/hr 2860 lb/yr 140 lb/day
Green Tire Doper Nos. GT-11, GT-12, GT-19, GT-20 / Tire Assembly	GT-11, GT-12, GT-19, GT-20, TA-1	Ethylene Oxide Methylene Chloride	78.3 lb/yr 0.20 lb/hr 1760 lb/yr
Green Tire Doper Nos. GT-10, GT-13, GT-14, GT-15, GT-16, GT-17, GT-18 / Tire Assembly	GT-10, GT-13, GT-14, GT-15, GT-16, GT-17, GT-18, TA-1	n-Hexane Ethylene Oxide Methylene Chloride	0.165 lb/day 78.3 lb/yr 0.20 lb/hr 1760 lb/yr
Minor Buff Spray Paint Booth No. 1 & No. 2	PB-1, PB-2	Benzene	17.8 lb/yr
Minor Buff Spray Paint Booth No. 3	PB-3	Benzene	8.91 lb/yr
Minor Buff Spray Paint Booth No. 4	PB-4	Benzene	8.91 lb/yr
Banbury 621 Slab Cooling & Handling; Banbury 622 Slab Cooling & Handling	I-RM-1, I-RM-5	Aniline Benzene 1,3-Butadiene Cadmium Carbon Disulfide Di(2-ethylhexyl) phthalate Methylene Chloride n-Hexane Nickel	0.041 lb/hr 11.3 lb/yr 118 lb/yr 6.54 lb/yr 85.5 lb/day 1.85 lb/day 0.94 lb/hr 8130 lb/yr 223 lb/day 0.0820 lb/day

Source Description	Source ID	Toxic Air Pollutant	Emission Rate
10-Inch Extrusion Rubber Mills (9 Rubber Mills)	I-RMT1 to 3, RMT6 to 11	Acrylonitrile Aniline Benzene 1,3-Butadiene Carbon Disulfide Di(2-ethylhexyl) phthalate Methylene Chloride n-Hexane Nickel	227 lb/yr 1.89 lb/hr 91.1 lb/yr 412 lb/yr 86.6 lb/day 15.4 lb/day 0.91 lb/hr 7910 lb/yr 710 lb/day 1.09 lb/day
RT073 Storage Tank (NW)	ST-1	n-Hexane	0.329 lb/day
RT018 Storage Tank (SE)	ST-3	Benzene	0.133 lb/yr
Diesel-fired peak shaving generator 15.7 million Btu/hr	EGDD-1	Benzene Formaldehyde	11.42 lb/yr 0.254 lb/hr
Diesel-fired peak shaving generator 15.7 million Btu/hr	EGDD-2	Benzene Formaldehyde	11.42 lb/yr 0.254 lb/hr
Diesel engine driven air compressor 4.46 million Btu/hr	ACDD-1	Benzene Formaldehyde	11.90 lb/yr 0.0723 lb/hr
Diesel engine driven air compressor 4.46 million Btu/hr	ACDD-2	Benzene Formaldehyde	11.90 lb/yr 0.0723 lb/hr
Diesel engine driven air compressor 4.46 million Btu/hr	ACDD-3	Benzene Formaldehyde	11.90 lb/yr 0.0723 lb/hr
Diesel engine driven air compressor 4.46 million Btu/hr	ACDD-4	Benzene Formaldehyde	11.90 lb/yr 0.0723 lb/hr
Diesel engine driven air compressor 4.46 million Btu/hr	ACDD-5	Benzene Formaldehyde	43.1 lb/yr 0.0723 lb/hr
Diesel-fired emergency generator	ES4.1	Benzene 1,3-Butadiene Formaldehyde	10.6 lb/yr 4.09 lb/yr 0.975 lb/hr
Diesel-fired emergency generator	ES4.2	Benzene 1,3-Butadiene Formaldehyde	10.6 lb/yr 4.09 lb/yr 0.975 lb/hr
Diesel-fired emergency generator	ES4.3	Benzene 1,3-Butadiene Formaldehyde	10.6 lb/yr 4.09 lb/yr 0.975 lb/hr
Diesel-fired emergency generator	ES4.4	Benzene 1,3-Butadiene Formaldehyde	2.77 lb/yr 1.07 lb/yr 0.254 lb/hr
Diesel-fired emergency fire pump engine	ES4.5	Benzene 1,3-Butadiene Formaldehyde	1.51 lb/yr 0.581 lb/yr 0.139 lb/hr
Diesel-fired emergency fire pump engine	ES4.6	Benzene 1,3-Butadiene Formaldehyde	1.51 lb/yr 0.581 lb/yr 0.139 lb/hr
Diesel-fired peak shaving generator	EGDD-3	Benzene Formaldehyde	13.31lb/yr 0.320 lb/hr

Source Description	Source ID	Toxic Air Pollutant	Emission Rate
Diesel-fired peak shaving generator	EGDD-4	Benzene Formaldehyde	13.31lb/yr 0.320 lb/hr
Diesel-fired peak shaving generator	EGDD-5	Benzene Formaldehyde	13.31lb/yr 0.320 lb/hr
Final Inspection	FI-1	Benzene Formaldehyde n-Hexane Methylene Chloride	44.5 lb/yr 0.0139 lb/hr 1.98 lb/day 2.42 lb/hr 21000 lb/yr
Sidewall and Tread Grinding Area	GA-1	Aniline Benzene 1,3-Butadiene Carbon Disulfide Di(2-ethylhexyl) phthalate Methylene Chloride n-Hexane	0.81 lb/hr 37.7 lb/yr 779 lb/yr 5.75 lb/day 3.59 lb/day 0.0400 lb/hr 355 lb/yr 112 lb/day
Boiler No. 1 and Boiler No. 2	UA-1, UA-2	Benzene Cadmium Arsenic Beryllium Flourides Formaldehyde n-Hexane Mercury Nickel Sulfuric Acid	25.0 lb/yr 224 lb/yr 12.1 lb/yr 215 lb/yr 43.6 lb/hr 242 lb/day 16.9 lb/hr 7170 lb/day 9.07 lb/day 90.5 lb/day 17.4 lb/hr 184 lb/day
Sources and modeling rates added or modified due to application 9800043.15C			
Curing Area Nos. 1, 2, 3 and 4	CA-1, CA-2, CA-3 and CA-4	Benzene 1,3-Butadiene Di(2-ethylhexyl) phthalate Methylene Chloride Methylene Chloride	166.44 lb/yr 5.66lb/yr 24.88lb/yr 0.00 lb/hr 0.97lb/yr
Six extrusion lines One extrusion line One extrusion line	TU-1 TU-2 TU-4	Benzene 1,3-Butadiene Cadmium compounds Carbon Disulfide Chromium compounds Di(2-ethylhexyl) phthalate Methylene Chloride Methylene Chloride Nickel Compounds	6.86 lb/yr 15.6 lb/yr 0.01 lb/yr 0.03 lb/day 2.75 lb/yr 4.99 lb/yr 0.05 lb/hr 401.87 lb/yr 0.01 lb/day
Green Tire Doper Nos. GT-11, GT-12, GT-19, GT-20, GT-21, GT-20, GT-23 and GT-24 / Tire Assembly	GT-11, GT-12, GT-19, GT-20, GT-21, GT-20, GT-23 GT-24 and TA-1	Benzene Methylene Chloride Methylene Chloride	0.46 lb/yr 0.0022 lb/hr 19.67 lb/yr

Source Description	Source ID	Toxic Air Pollutant	Emission Rate
Green Tire Doper Nos. GT-10, GT-13, GT-14, GT-15, GT-16, GT-17, GT-18 / Tire Assembly	GT-10, GT-13, GT-14, GT-15, GT-16, GT-17, GT-18, TA-1	Benzene n-Hexane Methylene Chloride Methylene Chloride	0.46 lb/yr 0.165 lb/day 0.0022 lb/hr 19.67 lb/yr
Sources and rates added or modified due to application 9800043.17A			
Tandem mixer	TM-1	Benzene Cadmium compounds Carbon Disulfide Di(2-ethylhexyl) phthalate Methylene Chloride Methylene Chloride Nickel Compounds	12.12 lb/yr 0.82 lb/yr 1.36 lb/day 0.0 lb/hr 0.06 lb/hr 552.86 lb/hr 0.02 lb/day
Tandem mixer slab cooling and handling	RM-5	Benzene Cadmium compounds Carbon Disulfide Di(2-ethylhexyl) phthalate Methylene Chloride Methylene Chloride Nickel Compounds	6.06 lb/yr 0.41 lb/yr 0.68 lb/day 0.0 lb/hr 0.03 lb/hr 276.43 lb/hr 0.01 lb/day

Monitoring/Recordkeeping/Reporting

a. The combined amount of No. 6 fuel oil burned in the boilers **(ID Nos. UA-1 and UA-2)** shall not exceed 35,816 gallons/day and 8,903,664 gallons/year.
b. The Permittee shall keep records and report to DAQ as follows:
   i. The total amount of No. 6 fuel oil burned in each boiler **(ID Nos. UA-1 and UA-2)** must be recorded in a logbook on a daily[1] and monthly basis, and the records shall be kept on file for a minimum of two years.
   ii. The Permittee shall report semi-annually the combined daily No. 6 fuel oil burning rate for each month (postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December, and July 30 of each calendar year for the preceding six-month period between January and June) and report annually the combined No. 6 fuel oil burning rate (postmarked on or before January 30 of each calendar year for the preceding calendar year) for boilers **(ID Nos. UA-1 and UA-2)**.

5. 15A NCAC 2Q. 0317: AVOIDANCE CONDITIONS for 15A NCAC 2D .1111: MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY

a. In order to remain classified as a minor source for hazardous air pollutants and avoid applicability of this regulation, the facility shall be less than:
   i. 10 tons per year of each hazardous air pollutant, and
   ii. 25 tons per year of all hazardous air pollutants combined.
   The Permittee shall be deemed in noncompliance with this condition and 2D .1111 (Subpart XXXX entitled "National Emission Standards for Hazardous Air Pollutants for Rubber Tire Manufacturing") if the HAP emissions exceed this limit.

Monitoring/Recordkeeping [15A NCAC 2Q .0508(f)]

[1] daily records are required only on the days when the Permittee is actually burning No. 6 fuel oil in boilers (ID Nos. UA-1 and UA-2).

b. To ensure that emissions are less than the 10/25 tons per year limits, the Permittee shall maintain monthly consumption records of each material used containing hazardous air pollutants:
   i. Material Safety Data Sheets (MSDS) or formulation data for cements, inks, paints, and solvents in the manufacturing process,
   ii. Usage of production related cements, inks, paints, solvents, and other production materials containing hazardous air pollutants,
   iii. Monthly production throughput data necessary to calculate hazardous air pollutant emissions, and
   iv. Monthly hazardous air pollutant emissions calculations and 12-month rolling total hazardous air pollutant emissions calculations by the end of each month for the previous month.

   The Permittee shall be deemed in noncompliance with 15A NCAC 2D .1111 if the HAP emissions are not monitored or records are not maintained.
c. The Permittee shall keep a record of the applicability determination on site at the source for a period of five years after the determination, or until the source becomes an affected source. The determination must include the analysis demonstrating why the Permittee believes the source is unaffected pursuant to 40 CFR Part 63.10(b)(3).
   The Permittee shall be deemed in noncompliance with 15A NCAC 2D .1111 if the records are not maintained.

Reporting [15A NCAC 2Q .0508(f)]

d. The Permittee shall submit a summary report of monitoring and recordkeeping activities postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. The report shall contain the following:
   i. the pounds of hazardous air pollutants emitted during the previous 17 months. The emissions must be calculated for each of the 12-month periods over the previous 17 months; and

   ii. the greatest quantity in pounds of an individual hazardous air pollutant emitted during the previous 17 months. The emissions must be calculated for each of the 12-month periods over the previous 17 months.

2.3 – Permit Shield for Nonapplicable Requirements

The Permittee is shielded from the following nonapplicable requirements [15A NCAC 2Q .0512(a)(1)(B)]:

a. 40 CFR 60, Subpart Db is not applicable to boilers **(ID Nos. UA-1 and UA-2)** because they were constructed prior to **June 19, 1984** and have not been modified or reconstructed as of **April 16, 2002**.
b. 40 CFR 60, Subpart BBB is not applicable to doper **(ID No. GT-2)** and 10 inch undertread line **(ID No. UT-1)** because they were constructed prior to **January 30, 1983** and have not been modified or reconstructed as of **April 16, 2002**.
c. 40 CFR 60, Subpart VVV is not applicable to the painting processes at the facility because they are not considered web coating processes that apply polymeric coatings.

2.4 – Actuals PAL Permit Requirements

A. VOC emissions limits

a. The following Actuals Plantwide Applicability Limitations (Actuals PAL) shall not be exceeded:

PAL Pollutant	Actuals PAL (Tons Per Rolling 12-Months)	Effective Date	Expiration Date	PAL Emissions Units
VOC	505	XXX xxx, 2020	XXX xxx, 2030 (less than 10 years from effective date)	Mixing Emissions Units **(ID Nos. BC-1, BD-1, BC-2, BD-2, BC-3, BD-3, BC-4, TM-1****, BD-4, BC-4FM, BD-4FM, RM-2, RM-3, RM-6, RM-5****and ES-5)** Milling Emissions Units **(ID Nos. RMC-1 through RMC-11, RMT-11, RMT-1 through RMT-3, RMT-6 through RMT-10)** Calendering Emissions Units **(ID Nos. CAL-1 and C-3)** Extrusion Emissions Units **(ID Nos. UT-1, UT-2, UT-3, SW-3, TU-1, TU-2, TUC-3, TU-4*** and ES-10)** Bead Cementing Emissions Units **(ID Nos. BCO-1 and BCO-2)** Tire Doping Emissions Units **(ID Nos. GT-10, GT-11, GT-12, GT-13*, GT-14*, GT-15*, GT-16*, GT-17**, GT-18**, GT-19**, GT-20**, GT-21***, GT-20***, GT-23*** and GT-24***)** Curing Emissions Units **(ID Nos. CA-1, CA-2, CA-3 and CA-4***)** Paint Booths Emissions Units **(ID Nos. PB-1 through PB-7)** Grinding Emissions Unit **(ID No. GA-1)** Plantwide Coating/Solvent Emissions Units **(ID Nos. PW-1, TA-1, FI-1, and ES-6)** Carbon Black and Dry Chemical/Pigment Handling Emissions Units **(ID Nos. RCS-1, CW-1, RCS-2, BU-1, BT-1 and SI-1**** through SI-6****)** Rubber Cement Mixer/Solvent Storage Tanks Emissions Units **(ID Nos. RCM-1, ST-1, ST-2, ST-3, and ST-4)** Oil Storage Tanks Emissions Units **(ID Nos. ES-1.1, ES-1.2, ES-2.1, ES-2.2, ES-3, ES-7, ES-8, ES-11, ES-12, and ES-13)** Boilers/Peak Shaving and Emergency Generators/Emergency Fire Pump Engines/Air Compressors Emissions Units **(ID Nos. UA-1, UA-2, UA-T1, EGDD-1, EGDD-2, ES-4.5 through ES-4.6**, and ACDD-1 through ACDD-5)** #Diesel-fired peak shaving generator (2,145 kilowatts, each, ID Nos. **EGDD-3, EGDD-4 and EGDD-5**)

The Permittee may make modifications or additions to the PAL emissions units in Section 2.4 A. a., above, without requiring a modification to the PAL provisions of this permit if the emissions from the modified or additional emissions units will be calculated according to the monitoring methods specified in Section 2.4 A. j., through s., below and the plantwide actual VOC emissions will remain less than 505 tons per rolling 12 months.

b. If the Permittee applies to renew the PAL permit in accordance with 40 CFR 51.166(w)(10) before the end of the PAL effective period in Section 2.4 A. a., above, then the PAL permit shall not expire at the end of the PAL effective period. It shall remain in effect until a revised PAL permit is issued by the DAQ. [40 CFR 51.166(w)(7)(iii)]
c. Once the PAL permit expires, the Permittee is subject to the requirements in 40 CFR 51.166(w)(9). Upon PAL permit expiration, the DAQ shall decide whether and how the PAL allowable emissions will be distributed and issue a revised permit incorporating allowable limits for each PAL emissions unit, as the DAQ determines is appropriate. The DAQ will retain the ultimate discretion to decide whether and how the allowable emissions will be allocated. [40 CFR 51.166(w)(7)(v)]

Testing [15A NCAC 2Q .0508(f)]

d. If emission testing is required, the testing shall be performed in accordance with General Condition JJ. If the results of this testing indicate that the VOC emissions on a 12-month rolling basis have exceeded the actual PAL in Section 2.4 A. a., above, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530.
e. The Permittee shall revalidate the emission factors and any other data used in Section 2.4 A. j., through s., below for calculations of VOC emissions through performance testing or other scientifically valid means approved by the DAQ. The Permittee shall perform such revalidation once every five years after the issuance of the PAL permit, in accordance with General Condition JJ. If the Permittee does not perform this revalidation, the Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530.

If any emission factors included in this Section 2.4 A., are revised, the applicable provision of the PAL permit may be modified through a modification to the permit to reflect the results of a revalidation. The Permittee shall not rely on the updated emission factors until they are approved by DAQ and incorporated into the permit. [40 CFR 51.166(w)(12)(ix)]

Monitoring/Recordkeeping [15A NCAC 02Q .0508(f)]

f. The Permittee shall record rubber throughput on a monthly basis for the mixing, milling, calendering, extrusion, curing, and grinding PAL emissions units. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if these records are not maintained.
g. The Permittee shall keep monthly records in a logbook (written or electronic format) of the amount of natural gas, No. 2 fuel oil, No. 6 fuel oil, and diesel fuel burned in each boiler. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if the amount of fuel burned in each boiler is not monitored.
h. The Permittee shall keep monthly records in a logbook (written or electronic format) of hours of operation for each peak shaving generator, emergency generator, emergency fire pump engine, and air compressor. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if these records are not maintained.
i. The Permittee shall include in emissions calculations for compliance purposes emissions from startups, shutdowns, and malfunctions in Section 2.4 A. j., though s., below. [40 CFR 51.166(w)(7)(iv)]
j. The Permittee shall calculate VOC emissions per month after the end of each month for mixing as follows:

VOC, tons/month = Σ [rubber throughput$_i$, lb x emission factor for generic rubber compound$_i$, lb/lb rubber] / 2000

Where emission factors for generic rubber compounds used at the facility are as below:
Compound #1 = 6.17×10^{-5} lb/lb rubber
Compound #2 = 3.91×10^{-5} lb/lb rubber
Compound #3 = 1.36×10^{-4} lb/lb rubber
Compound #4 = 3.88×10^{-5} lb/lb rubber
Compound #5 = 2.15×10^{-4} lb/lb rubber
Compound #6 = 3.86×10^{-5} lb/lb rubber
i = 1 through 6

[40 CFR 51.166(w)(7)(vi) and 51.166(w)(12)(vi)]

k. The Permittee shall calculate VOC emissions per month after the end of each month for milling as follows:

VOC, tons/month = Σ [rubber throughput$_i$, lb x emission factor for generic rubber compound$_i$, lb/lb rubber] / 2000

Where emission factors for generic rubber compounds used at the facility are as below:
Compound #1 = 8.99×10^{-5} lb/lb rubber
Compound #2 = 1.10×10^{-4} lb/lb rubber
Compound #3 = 1.13×10^{-4} lb/lb rubber
Compound #4 = 8.37×10^{-5} lb/lb rubber
Compound #5 = 3.14×10^{-4} lb/lb rubber
Compound #6 = 5.64×10^{-5} lb/lb rubber
i = 1 through 6

[40 CFR 51.166(w)(7)(vi) and 51.166(w)(12)(vi)]

l. The Permittee shall calculate VOC emissions per month after the end of each month for calendering as follows:

VOC, tons/month = Σ [rubber throughput$_i$, lb x emission factor for generic rubber compound$_i$, lb/lb rubber] / 2000

Where emission factors for generic rubber compounds used at the facility are as below:
Compound #1 = 5.33×10^{-5} lb/lb rubber
Compound #2 = 5.59×10^{-5} lb/lb rubber
Compound #3 = 1.17×10^{-4} lb/lb rubber
Compound #4 = 3.35×10^{-5} lb/lb rubber
Compound #5 = 1.86×10^{-4} lb/lb rubber
Compound #6 = 3.34×10^{-5} lb/lb rubber
i = 1 through 6

[40 CFR 51.166(w)(7)(vi) and 51.166(w)(12)(vi)]

m. The Permittee shall calculate VOC emissions per month after the end of each month for extrusion as follows:

VOC, tons/month = Σ [rubber throughput$_i$, lb x emission factor for generic rubber compound$_i$, lb/lb rubber] / 2000

Where emission factors for generic rubber compounds used at the facility are as below:
Compound #1 = 1.48×10^{-5} lb/lb rubber
Compound #2 = 9.37×10^{-6} lb/lb rubber
Compound #3 = 3.25×10^{-5} lb/lb rubber

Compound #4 = 5.67 x 10^{-6} lb/lb rubber
Compound #5 = 5.15 x 10^{-5} lb/lb rubber
Compound #6 = 1.23 x 10^{-5} lb/lb rubber
Compound #7 = 2.92 x 10^{-5} lb/lb rubber
i = 1 through 7

[40 CFR 51.166(w)(7)(vi) and 51.166(w)(12)(vi)]

n. The Permittee shall calculate VOC emissions per month after the end of each month for curing as follows:

VOC, tons/month = Σ [rubber throughput, lb x emission factor for tire curing or tire bladder curing, lb/lb rubber] / 2000

Where emission factor for tire curing emissions units = See confidential information letter dated March 16, 2009, and
emission factor for tire bladder curing emissions units for Compound #7 = 2.36 x 10^{-4} lb/lb rubber

[40 CFR 51.166(w)(7)(vi) and 51.166(w)(12)(vi)]

o. The Permittee shall calculate VOC emissions per month after the end of each month for grinding as follows:

VOC, tons/month = Σ[rubber throughput, lb x emission factor for carcass or sidewall/whitewall, lb/lb rubber] / 2000

Where emission factors for:
Carcass = 5.21 x 10^{-4} lb/lb rubber, and
Sidewall/Whitewall = 1.59 x 10^{-2} lb/lb rubber

[40 CFR 51.166(w)(7)(vi) and 51.166(w)(12)(vi)]

p. The Permittee shall calculate VOC emissions per month after the end of each month for ethanol producing pigment processes using the emission factors included in the March 16, 2009 confidential information letter. [40 CFR 51.166(w)(7)(vi) and 51.166(w)(12)(vi)]

q. The Permittee shall calculate VOC emissions per month after the end of each month for rubber cement mixer, solvent storage tanks, and oil storage tanks as follows:

VOC, tons/month = Σ [solvent throughput, lb x emission factor for rubber cement mixer or solvent storage tanks, lb/lb of solvent] / 2000

Where emission factors for:
Rubber cement mixer = 4.01 x 10^{-4} lb/lb solvent, and
Solvent storage tanks = 2.83 x 10^{-3} lb/lb solvent (ST-1, ST-2 and ST-3) and 8.17 x 10^{-3} lb/lb solvent (ST-4).

The Permittee shall use a combined emission factor (rate) of 0.152 tons VOC per month for all oil storage tanks. [40 CFR 51.166(w)(7)(vi) and 51.166(w)(12)(vi)]

r. The Permittee shall calculate VOC emissions per month at the end of each month for each boiler, peak shaving generator, emergency generator, and air compressor, as follows:

VOC, tons/month = Σ [{0.2 lb/10^3gallon x A gallon/month} + {0.28 lb/10^3 gallon x B gallon/month} + {5.5 lb/10^6 scf x C scf/month} + {2.16 lb/hr x D hour/month} + {0.240 lb/hr x E hour/month} + {0.00251 lb/hp-hr x F hp-hr/month}] / [2000 lbs/ton]

Where,

A = No. 2 fuel oil usage in gallon per month for each boiler.
B = No. 6 fuel oil usage in gallon per month for each boiler.
C = natural gas usage in standard cubic feet per month for each boiler.
D = operating time in hour per month for each diesel-fired peak shaving generator.
E = operating time in hour per month for each diesel-fired air compressor.
F = power output in hp-hr per month for each diesel fired emergency generator or diesel fired emergency fire pump engine (≤ 600 hp)

[40 CFR 51.166(w)(7)(vi) and 51.166(w)(12)(vi)]

s. The Permittee shall perform mass balance calculations per month after the end of each month for each coating or solvent used in mixing, calendering, extrusion, bead cementing, tire doping, curing, paint booths, plantwide coating/solvent storage tanks, and carbon black and dry chemical/pigment handling PAL emissions units. VOC emissions shall be determined by multiplying the total amount of each type of coating or solvent consumed during the month by the VOC content of each coating or solvent. The Permittee shall provide a demonstrated means of validating the published content of VOC that is contained in or created by all materials used in or at the PAL emissions units. The Permittee shall assume that the VOC content is either 100 percent or obtain from the vendor of the material a certificate of analysis confirming the VOC content included in the material safety data sheet (MSDS) or use formulation data. If the vendor of the material provides a range of VOC content for such material, the Permittee shall use the highest value of the range to calculate the VOC emissions unless the DAQ approves the site-specific data (such as Method 24 analysis) showing that another value in the range is more appropriate. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if the Permittee does not comply with the requirements of this Section 2.4 A. s. [40 CFR 51.166(w)(7)(vi) and 51.166(w)(12)(iii)]

t. The Permittee shall record and report maximum potential emissions without considering enforceable emission limitations or operational restrictions for a PAL emissions unit during any period of time that there is no monitoring data, unless another method for determining emissions during such periods is specified in the PAL permit. Notwithstanding the foregoing, the Permittee may consider actual production or operating data in determining its emissions for such a period if the Permittee has written records of such data and if the data are substantially the same as or similar in form or content to the monitoring data required by the PAL permit. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if the Permittee does not comply with the requirements of this Section 2.4 A. t. [40 CFR 51.166(w)(12)(vii)]

u. The Permittee shall determine facility wide VOC emissions per month using the emissions calculations in Section 2.4 A. j., through s., above. Calculations and the total amount of facility wide VOC emissions shall be recorded monthly in a logbook (written or electronic format). The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530 if the 12-month rolling facility wide VOC emissions exceed the limit in Section 2.4 A. a., above or the facility wide VOC emissions are not recorded.

v. The Permittee shall retain on site a copy of all records necessary to determine compliance with any requirement in 40 CFR 51.166(w) and of the PAL, including a determination of each PAL emissions unit's 12-month rolling total emissions, for 5 years from the date of such record. The records may be retained in electronic format. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530, if these records are not maintained. [40 CFR 51.166(w)(7)(viii) and 51.166(w)(13)(i)]

w. The Permittee shall retain a copy of the following records, for the duration of the PAL effective period plus 5 years:
   i. A copy of the PAL permit application and any applications for revisions to the PAL; and
   ii. Each annual certification of compliance pursuant to Title V and the data relied on in certifying the compliance. This requirement applies only to the data used to certify compliance with the terms of the actuals PAL permit in this Section 2.4 A.

The records may be retained in electronic format. The Permittee shall be deemed in noncompliance with 15A NCAC 2D .0530, if these records are not maintained. [40 CFR 51.166(w)(7)(viii) and 51.166(w)(13)(ii)]

Reporting [15A NCAC 2Q .0508(f), and §51.166(w)(7)(ix) and §51.166(w)(14)]

x. The Permittee shall submit monitoring reports and prompt compliance reports to the reviewing authority in accordance with the applicable Title V operating permit program. The reports shall meet the requirements in paragraphs 40 CFR 51.166(w)(14)(i) through (iii).
   i. Semi-annual report. The semi-annual report shall be submitted to the Regional Air Quality Supervisor postmarked on or before January 30 of each calendar year for the preceding six-month period between July and December and July 30 of each calendar year for the preceding six-month period between January and June. This report shall contain the information required in paragraphs 40 CFR 51.166(w)(14)(i)(a) through (g).
      A. The identification of Permittee and the permit number.
      B. Total annual emissions (tons/year) based on a 12-month rolling total for each month in the reporting period recorded pursuant to paragraph 40 CFR 51.166 (w)(13)(i).
      C. All data relied upon, including, but not limited to, any Quality Assurance or Quality Control data, in calculating the monthly and annual PAL pollutant emissions.
      D. A list of any PAL emissions units modified or added to the major stationary source during the preceding 6-month period.
      E. The number, duration, and cause of any instance of deviation or monitoring malfunctions (other than the time associated with zero and span calibration checks), and any corrective action taken.
      F. A notification of a shutdown of any PAL permit monitoring system, whether the shutdown was permanent or temporary, the reason for the shutdown, the anticipated date that the monitoring system will be fully operational or replaced with another monitoring system, and whether the PAL emissions unit monitored by the monitoring system continued to operate, and the calculation of the emissions of the pollutant or the number determined by method included in the permit, as provided by 40 CFR 51.166(w) (12)(vii).
      G. A signed statement by the responsible official (as defined by the applicable Title V operating permit program) certifying the truth, accuracy, and completeness of the information provided in the report.
   ii. Instance of Noncompliance report. The Permittee shall promptly submit reports of any instances of noncompliance or exceedance of the PAL requirements, including periods where no monitoring is available. A report submitted pursuant to 40 CFR 70.6(a)(3)(iii)(B) of this chapter shall satisfy this reporting requirement. The instance of noncompliance reports shall be submitted within the time limits prescribed by the applicable program implementing 40 CFR 70.6(a)(3)(iii)(B). The reports shall contain the following information:
      A. The identification of owner and operator and the permit number;
      B. The PAL requirement that experienced the instance of noncompliance or that was exceeded;
      C. Emissions resulting from the instance of noncompliance or the exceedance; and
      D. A signed statement by the responsible official (as defined by the applicable Title V operating permit program) certifying the truth, accuracy, and completeness of the information provided in the report.
   iii. Re-validation results. The Permittee shall submit to the Regional Air Quality Supervisor the results of any re-validation within three months after completion of such revalidation.

2.5 - Use of Projected Actual Emissions to Avoid The Applicability of PSD

A. All the Affected Sources as identified in application 9800043. 15C and 9800043. 17A

1. 15A NCAC 02D. 0530(u): USE OF PROJECTED ACTUAL EMISSIONS TO AVOID APPLICABILITY OF PREVENTION OF SIGNIFICANT DETERIORATION REQUIREMENTS

Pursuant to Application **9800043.15C**, **9800043.15C** and **9800043.17A** for the addition of two green tire dopers (GT-23 and GT-24) of the tire assembly machine, two green tire dopers (GT-21 and GT-22), tire assembly area (ID No. TA-1), Tandem mixer (TM-1), Tandem mixer slab cooling and handling (RM-5), one extrusion line (TU-4) and curing area (CA-4) the Permittee shall perform the following:

Monitoring/Recordkeeping/Reporting [15A NCAC 02D .0530(u)]

a. The Permittee shall maintain records of annual emissions of PM/TSP, PM_{10}, $PM_{2.5}$, and NOx in tons per year, from the:
- two green tire dopers (GT-23 and GT-24) of the tire assembly machine,
- two green tire dopers (GT-21 and GT-22)
- tire assembly area (ID No. TA-1),
- Tandem mixer (TM-1),
- Tandem mixer slab cooling and handling (RM-5)
- One extrusion line (TU-4) and
- curing area (CA-4)

on a calendar year basis, related to the modification **for 10 years** following resumption of regular operations after the change is made.

b. The reported actual emissions (post-construction emissions) for each of the 10 calendar years will be compared to the projected actual emissions (pre-construction projection) as included below:

Pollutant	Projected Actual Emissions* (tons per year)
PM/TSP	67.26
PM_{10}	60.30
$PM_{2.5}$	55.52
NO_x	164.32

* These projections are not enforceable limitations. If projected emissions are exceeded, consistent with 15A NCAC 2D .0530, the permit shall include in its annual report an explanation as to why the actual rates exceeded the projection.

c. The Permittee shall submit a report to the director within 60 days after the end of each calendar year during which these records must be generated. The report shall contain the items listed in 40 CFR 51.166(r)(6)(v)(a) through (c).

d. The Permittee shall make the information documented and maintained under this condition available to the Director or the general public pursuant to the requirements in 40 CFR 70.4(b)(3)(viii).

2.6 - Filing a Title V application and Notification Requirement

A. All the Affected Sources as identified in application 9800043. 15C, 9800043.17A, and 9800043.18A.

a) The Permittee shall file a Title V Air Quality Permit Application pursuant to 15A NCAC 2Q .0504 for two green tire dopers (GT-23 and GT-24) of the tire assembly machine, two green tire dopers (GT-21 and GT-22), tire assembly area (ID No. TA-1), Tandem mixer (TM-1) Tandem mixer slab cooling and handling (RM-5), One extrusion line, (TU-4) curing area (CA-4) and three diesel-fired peak shaving generators (ID Nos. EGDD-3, EGDD-4 and EGDD-5). on or before 12 months after commencing operation of any of these sources.

b) Within 15 days after startup of any of these sources listed in 2.6 A. a) the Permittee shall provide written notice of the start up to the DAQ Regional Office Supervisor.

SECTION 3 - GENERAL CONDITIONS (version 5.3, 08/21/2018)

This section describes terms and conditions applicable to this Title V facility.

A. **General Provisions** [NCGS 143-215 and 15A NCAC 02Q .0508(i)(16)]
1. Terms not otherwise defined in this permit shall have the meaning assigned to such terms as defined in 15A NCAC 02D and 02Q.
2. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are binding and enforceable pursuant to NCGS 143-215.114A and 143-215.114B, including assessment of civil and/or criminal penalties. Any unauthorized deviation from the conditions of this permit may constitute grounds for revocation and/or enforcement action by the DAQ.
3. This permit is not a waiver of or approval of any other Department permits that may be required for other aspects of the facility which are not addressed in this permit.
4. This permit does not relieve the Permittee from liability for harm or injury to human health or welfare, animal or plant life, or property caused by the construction or operation of this permitted facility, or from penalties therefore, nor does it allow the Permittee to cause pollution in contravention of state laws or rules, unless specifically authorized by an order from the North Carolina Environmental Management Commission.
5. Except as identified as state-only requirements in this permit, all terms and conditions contained herein shall be enforceable by the DAQ, the EPA, and citizens of the United States as defined in the Federal Clean Air Act.
6. Any stationary source of air pollution shall not be operated, maintained, or modified without the appropriate and valid permits issued by the DAQ, unless the source is exempted by rule. The DAQ may issue a permit only after it receives reasonable assurance that the installation will not cause air pollution in violation of any of the applicable requirements. A permitted installation may only be operated, maintained, constructed, expanded, or modified in a manner that is consistent with the terms of this permit.

B. **Permit Availability** [15A NCAC 02Q .0507(k) and .0508(i)(9)(B)]
The Permittee shall have available at the facility a copy of this permit and shall retain for the duration of the permit term one complete copy of the application and any information submitted in support of the application package. The permit and application shall be made available to an authorized representative of Department of Environmental Quality upon request.

C. **Severability Clause** [15A NCAC 02Q .0508(i)(2)]
In the event of an administrative challenge to a final and binding permit in which a condition is held to be invalid, the provisions in this permit are severable so that all requirements contained in the permit, except those held to be invalid, shall remain valid and must be complied with.

D. **Submissions** [15A NCAC 02Q .0507(e) and 02Q .0508(i)(16)]
Except as otherwise specified herein, two copies of all documents, reports, test data, monitoring data, notifications, request for renewal, and any other information required by this permit shall be submitted to the appropriate Regional Office. Refer to the Regional Office address on the cover page of this permit. For continuous emissions monitoring systems (CEMS) reports, continuous opacity monitoring systems (COMS) reports, quality assurance (QA)/quality control (QC) reports, acid rain CEM certification reports, and NOx budget CEM certification reports, one copy shall be sent to the appropriate Regional Office and one copy shall be sent to:

Supervisor, Stationary Source Compliance
North Carolina Division of Air Quality
1641 Mail Service Center
Raleigh, NC 27699-1641

All submittals shall include the facility name and Facility ID number (refer to the cover page of this permit).

E. **Duty to Comply** [15A NCAC 02Q .0508(i)(3)]
The Permittee shall comply with all terms, conditions, requirements, limitations and restrictions set forth in this permit. Noncompliance with any permit condition except conditions identified as state-only requirements constitutes a violation of the Federal Clean Air Act. Noncompliance with any permit condition is grounds for enforcement action, for permit termination, revocation and reissuance, or modification, or for denial of a permit renewal application.

F. **Circumvention** - STATE ENFORCEABLE ONLY
The facility shall be properly operated and maintained at all times in a manner that will effect an overall reduction in air pollution. Unless otherwise specified by this permit, no emission source may be operated without the concurrent operation of its associated air pollution control device(s) and appurtenances.

G. **Permit Modifications**
1. Administrative Permit Amendments [15A NCAC 02Q .0514]
The Permittee shall submit an application for an administrative permit amendment in accordance with 15A NCAC 02Q .0514.
2. Transfer in Ownership or Operation and Application Submittal Content [15A NCAC 02Q .0524 and 02Q .0505]
The Permittee shall submit an application for an ownership change in accordance with 15A NCAC 02Q.0524 and 02Q .0505.
3. Minor Permit Modifications [15A NCAC 02Q .0515]
The Permittee shall submit an application for a minor permit modification in accordance with 15A NCAC 02Q .0515.
4. Significant Permit Modifications [15A NCAC 02Q .0516]
The Permittee shall submit an application for a significant permit modification in accordance with 15A NCAC 02Q .0516.
5. Reopening for Cause [15A NCAC 02Q .0517]
The Permittee shall submit an application for reopening for cause in accordance with 15A NCAC 02Q .0517.

H. **Changes Not Requiring Permit Modifications**
1. Reporting Requirements
Any of the following that would result in new or increased emissions from the emission source(s) listed in Section 1 must be reported to the Regional Supervisor, DAQ:
   a. changes in the information submitted in the application;
   b. changes that modify equipment or processes; or
   c. changes in the quantity or quality of materials processed.

   If appropriate, modifications to the permit may then be made by the DAQ to reflect any necessary changes in the permit conditions. In no case are any new or increased emissions allowed that will cause a violation of the emission limitations specified herein.

2. Section 502(b)(10) Changes [15A NCAC 02Q .0523(a)]
   a. "Section 502(b)(10) changes" means changes that contravene an express permit term or condition. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), recordkeeping, reporting, or compliance certification requirements.
   b. The Permittee may make Section 502(b)(10) changes without having the permit revised if:
      i. the changes are not a modification under Title I of the Federal Clean Air Act;
      ii. the changes do not cause the allowable emissions under the permit to be exceeded;
      iii. the Permittee notifies the Director and EPA with written notification at least seven days before the change is made; and
      iv. the Permittee shall attach the notice to the relevant permit.
   c. The written notification shall include:
      i. a description of the change;
      ii. the date on which the change will occur;
      iii. any change in emissions; and
      iv. any permit term or condition that is no longer applicable as a result of the change.
   d. Section 502(b)(10) changes shall be made in the permit the next time that the permit is revised or renewed, whichever comes first.
3. Off Permit Changes [15A NCAC 02Q .0523(b)]
The Permittee may make changes in the operation or emissions without revising the permit if:
   a. the change affects only insignificant activities and the activities remain insignificant after the change; or
   b. the change is not covered under any applicable requirement.
4. Emissions Trading [15A NCAC 02Q .0523(c)]

To the extent that emissions trading is allowed under 15A NCAC 02D, including subsequently adopted maximum achievable control technology standards, emissions trading shall be allowed without permit revision pursuant to 15A NCAC 02Q .0523(c).

I.A **Reporting Requirements for Excess Emissions and Permit Deviations** [15A NCAC 02D .0535(f) and 02Q .0508(f)(2)]

"Excess Emissions" - means an emission rate that exceeds any applicable emission limitation or standard allowed by any rule in Sections .0500, .0900, .1200, or .1400 of Subchapter 02D; or by a permit condition; or that exceeds an emission limit established in a permit issued under 15A NCAC 02Q .0700. *(Note: Definitions of excess emissions under 02D .1110 and 02D .1111 shall apply where defined by rule.)*

"Deviations" - for the purposes of this condition, any action or condition not in accordance with the terms and conditions of this permit including those attributable to upset conditions as well as excess emissions as defined above lasting less than four hours.

Excess Emissions

1. If a source is required to report excess emissions under NSPS (15A NCAC 02D .0524), NESHAPS (15A NCAC 02D .1110 or .1111), or the operating permit provides for periodic (e.g., quarterly) reporting of excess emissions, reporting shall be performed as prescribed therein.
2. If the source is not subject to NSPS (15A NCAC 02D .0524), NESHAPS (15A NCAC 02D .1110 or .1111), or these rules do NOT define "excess emissions," the Permittee shall report excess emissions in accordance with 15A NCAC 02D .0535 as follows:
    a. Pursuant to 15A NCAC 02D .0535, if excess emissions last for more than four hours resulting from a malfunction, a breakdown of process or control equipment, or any other abnormal condition, the owner or operator shall:
        i. notify the Regional Supervisor or Director of any such occurrence by 9:00 a.m. Eastern Time of the Division's next business day of becoming aware of the occurrence and provide:
            - name and location of the facility;
            - nature and cause of the malfunction or breakdown;
            - time when the malfunction or breakdown is first observed;
            - expected duration; and
            - estimated rate of emissions;
        ii. notify the Regional Supervisor or Director immediately when corrective measures have been accomplished; and
        iii. submit to the Regional Supervisor or Director within 15 days a written report as described in 15A NCAC 02D .0535(f)(3).

Permit Deviations

3. Pursuant to 15A NCAC 02Q .0508(f)(2), the Permittee shall report deviations from permit requirements (terms and conditions) as follows:
    a. Notify the Regional Supervisor or Director of all other deviations from permit requirements not covered under 15A NCAC 02D .0535 quarterly. A written report to the Regional Supervisor shall include the probable cause of such deviation and any corrective actions or preventative actions taken. The responsible official shall certify all deviations from permit requirements.

I.B **Other Requirements under 15A NCAC 02D .0535**

The Permittee shall comply with all other applicable requirements contained in 15A NCAC 02D .0535, including 15A NCAC 02D .0535(c) as follows:

1. Any excess emissions that do not occur during start-up and shut-down shall be considered a violation of the appropriate rule unless the owner or operator of the sources demonstrates to the Director, that the excess emissions are a result of a malfunction. The Director shall consider, along with any other pertinent information, the criteria contained in 15A NCAC 02D .0535(c)(1) through (7).
2. 15A NCAC 02D .0535(g). Excess emissions during start-up and shut-down shall be considered a violation of the appropriate rule if the owner or operator cannot demonstrate that excess emissions are unavoidable.

J. **Emergency Provisions** [40 CFR 70.6(g)]
The Permittee shall be subject to the following provisions with respect to emergencies:
1. An emergency means any situation arising from sudden and reasonably unforeseeable events beyond the control of the facility, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the facility to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation, or operator error.
2. An emergency constitutes an affirmative defense to an action brought for noncompliance with such technology-based emission limitations if the conditions specified in 3. below are met.
3. The affirmative defense of emergency shall be demonstrated through properly signed contemporaneous operating logs or other relevant evidence that include information as follows:
   a. an emergency occurred and the Permittee can identify the cause(s) of the emergency;
   b. the permitted facility was at the time being properly operated;
   c. during the period of the emergency the Permittee took all reasonable steps to minimize levels of emissions that exceeded the standards or other requirements in the permit; and
   d. the Permittee submitted notice of the emergency to the DAQ within two working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, steps taken to mitigate emissions, and corrective actions taken.
4. In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
5. This provision is in addition to any emergency or upset provision contained in any applicable requirement specified elsewhere herein.

K. **Permit Renewal** [15A NCAC 02Q .0508(e) and 02Q .0513(b)]
This 15A NCAC 02Q .0500 permit is issued for a fixed term not to exceed five years and shall expire at the end of its term. Permit expiration terminates the facility's right to operate unless a complete 15A NCAC 02Q .0500 renewal application is submitted at least six months before the date of permit expiration. If the Permittee or applicant has complied with 15A NCAC 02Q .0512(b)(1), this 15A NCAC 02Q .0500 permit shall not expire until the renewal permit has been issued or denied. Permit expiration under 15A NCAC 02Q .0400 terminates the facility's right to operate unless a complete 15A NCAC 02Q .0400 renewal application is submitted at least six months before the date of permit expiration for facilities subject to 15A NCAC 02Q .0400 requirements. In either of these events, all terms and conditions of these permits shall remain in effect until the renewal permits have been issued or denied.

L. **Need to Halt or Reduce Activity Not a Defense** [15A NCAC 02Q .0508(i)(4)]
It shall not be a defense for a Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

M. **Duty to Provide Information (submittal of information)** [15A NCAC 02Q .0508(i)(9)]
1. The Permittee shall furnish to the DAQ, in a timely manner, any reasonable information that the Director may request in **writing** to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit.
2. The Permittee shall furnish the DAQ copies of records required to be kept by the permit when such copies are requested by the Director. For information claimed to be confidential, the Permittee may furnish such records directly to the EPA upon request along with a claim of confidentiality.

N. **Duty to Supplement** [15A NCAC 02Q .0507(f)]
The Permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to the DAQ. The Permittee shall also provide additional information as necessary to address any requirement that becomes applicable to the facility after the date a complete permit application was submitted but prior to the release of the draft permit.

O. **Retention of Records** [15A NCAC 02Q .0508(f) and 02Q .0508 (l)]
The Permittee shall retain records of all required monitoring data and supporting information for a period of at least five years from the date of the monitoring sample, measurement, report, or application. Supporting information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring information, and copies of all reports required by the permit. These records shall be maintained in a form suitable and

readily available for expeditious inspection and review. Any records required by the conditions of this permit shall be kept on site and made available to DAQ personnel for inspection upon request.

P. **Compliance Certification** [15A NCAC 02Q .0508(n)]
The Permittee shall submit to the DAQ and the EPA (Air and EPCRA Enforcement Branch, EPA, Region 4, 61 Forsyth Street SW, Atlanta, GA 30303) postmarked on or before March 1 a compliance certification (for the preceding calendar year) by a responsible official with all federally-enforceable terms and conditions in the permit, including emissions limitations, standards, or work practices. It shall be the responsibility of the current owner to submit a compliance certification for the entire year regardless of who owned the facility during the year. The compliance certification shall comply with additional requirements as may be specified under Sections 114(a)(3) or 504(b) of the Federal Clean Air Act. The compliance certification shall specify:
1. the identification of each term or condition of the permit that is the basis of the certification;
2. the compliance status (with the terms and conditions of the permit for the period covered by the certification);
3. whether compliance was continuous or intermittent; and
4. the method(s) used for determining the compliance status of the source during the certification period.

Q. **Certification by Responsible Official** [15A NCAC 02Q .0520]
A responsible official shall certify the truth, accuracy, and completeness of any application form, report, or compliance certification required by this permit. All certifications shall state that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

R. **Permit Shield for Applicable Requirements** [15A NCAC 02Q .0512]
1. Compliance with the terms and conditions of this permit shall be deemed compliance with applicable requirements, where such applicable requirements are included and specifically identified in the permit as of the date of permit issuance.
2. A permit shield shall not alter or affect:
    a. the power of the Commission, Secretary of the Department, or Governor under NCGS 143-215.3(a)(12), or EPA under Section 303 of the Federal Clean Air Act;
    b. the liability of an owner or operator of a facility for any violation of applicable requirements prior to the effective date of the permit or at the time of permit issuance;
    c. the applicable requirements under Title IV; or
    d. the ability of the Director or the EPA under Section 114 of the Federal Clean Air Act to obtain information to determine compliance of the facility with its permit.
3. A permit shield does not apply to any change made at a facility that does not require a permit or permit revision made under 15A NCAC 02Q .0523.
4. A permit shield does not extend to minor permit modifications made under 15A NCAC 02Q .0515.

S. **Termination, Modification, and Revocation of the Permit** [15A NCAC 02Q .0519]
The Director may terminate, modify, or revoke and reissue this permit if:
1. the information contained in the application or presented in support thereof is determined to be incorrect;
2. the conditions under which the permit or permit renewal was granted have changed;
3. violations of conditions contained in the permit have occurred;
4. the EPA requests that the permit be revoked under 40 CFR 70.7(g) or 70.8(d); or
5. the Director finds that termination, modification, or revocation and reissuance of the permit is necessary to carry out the purpose of NCGS Chapter 143, Article 21B.

T. **Insignificant Activities** [15A NCAC 02Q .0503]
Because an emission source or activity is insignificant does not mean that the emission source or activity is exempted from any applicable requirement or that the owner or operator of the source is exempted from demonstrating compliance with any applicable requirement. The Permittee shall have available at the facility at all times and made available to an authorized representative upon request, documentation, including calculations, if necessary, to demonstrate that an emission source or activity is insignificant.

U. **Property Rights** [15A NCAC 02Q .0508(i)(8)]
This permit does not convey any property rights in either real or personal property or any exclusive privileges.

V. **Inspection and Entry** [15A NCAC 02Q .0508(l) and NCGS 143-215.3(a)(2)]

1. Upon presentation of credentials and other documents as may be required by law, the Permittee shall allow the DAQ, or an authorized representative, to perform the following:
   a. enter the Permittee's premises where the permitted facility is located or emissions-related activity is conducted, or where records are kept under the conditions of the permit;
   b. have access to and copy, at reasonable times, any records that are required to be kept under the conditions of the permit;
   c. inspect at reasonable times and using reasonable safety practices any source, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
   d. sample or monitor substances or parameters, using reasonable safety practices, for the purpose of assuring compliance with the permit or applicable requirements at reasonable times.

   Nothing in this condition shall limit the ability of the EPA to inspect or enter the premises of the Permittee under Section 114 or other provisions of the Federal Clean Air Act.
2. No person shall refuse entry or access to any authorized representative of the DAQ who requests entry for purposes of inspection, and who presents appropriate credentials, nor shall any person obstruct, hamper, or interfere with any such authorized representative while in the process of carrying out his official duties. Refusal of entry or access may constitute grounds for permit revocation and assessment of civil penalties.

W. **Annual Fee Payment** [15A NCAC 02Q .0508(i)(10)]

1. The Permittee shall pay all fees in accordance with 15A NCAC 02Q .0200.
2. Payment of fees may be by check or money order made payable to the N.C. Department of Environmental Quality. Annual permit fee payments shall refer to the permit number.
3. If, within 30 days after being billed, the Permittee fails to pay an annual fee, the Director may initiate action to terminate the permit under 15A NCAC 02Q .0519.

X. **Annual Emission Inventory Requirements** [15A NCAC 02Q .0207]

The Permittee shall report by **June 30 of each year** the actual emissions of each air pollutant listed in 15A NCAC 02Q .0207(a) from each emission source within the facility during the previous calendar year. The report shall be in or on such form as may be established by the Director. The accuracy of the report shall be certified by a responsible official of the facility.

Y. **Confidential Information** [15A NCAC 02Q .0107 and 02Q .0508(i)(9)]

Whenever the Permittee submits information under a claim of confidentiality pursuant to 15A NCAC 02Q .0107, the Permittee may also submit a copy of all such information and claim directly to the EPA upon request. All requests for confidentiality must be in accordance with 15A NCAC 02Q .0107.

Z. **Construction and Operation Permits** [15A NCAC 02Q .0100 and .0300]

A construction and operating permit shall be obtained by the Permittee for any proposed new or modified facility or emission source which is not exempted from having a permit prior to the beginning of construction or modification, in accordance with all applicable provisions of 15A NCAC 02Q .0100 and .0300.

AA. **Standard Application Form and Required Information** [15A NCAC 02Q .0505 and .0507]

The Permittee shall submit applications and required information in accordance with the provisions of 15A NCAC 02Q .0505 and .0507.

BB. **Financial Responsibility and Compliance History [**15A NCAC 02Q .0507(d)(3)]

The DAQ may require an applicant to submit a statement of financial qualifications and/or a statement of substantial compliance history.

CC. **Refrigerant Requirements (Stratospheric Ozone and Climate Protection)** [15A NCAC 02Q .0501(d)]

1. If the Permittee has appliances or refrigeration equipment, including air conditioning equipment, which use Class I or II ozone-depleting substances such as chlorofluorocarbons and hydrochlorofluorocarbons listed as refrigerants in 40 CFR Part 82 Subpart A Appendices A and B, the Permittee shall service, repair, and maintain such equipment according to the work practices, personnel certification requirements, and certified recycling and recovery equipment specified in 40 CFR Part 82 Subpart F.
2. The Permittee shall not knowingly vent or otherwise release any Class I or II substance into the environment during the repair, servicing, maintenance, or disposal of any such device except as provided in 40 CFR Part 82 Subpart F.

3. The Permittee shall comply with all reporting and recordkeeping requirements of 40 CFR 82.166. Reports shall be submitted to the EPA or its designee as required.

DD. **Prevention of Accidental Releases - Section 112(r)** [15A NCAC 02Q .0508(h)]
If the Permittee is required to develop and register a Risk Management Plan with EPA pursuant to Section 112(r) of the Clean Air Act, then the Permittee is required to register this plan in accordance with 40 CFR Part 68.

EE. **Prevention of Accidental Releases General Duty Clause - Section 112(r)(1) –** FEDERALLY-ENFORCEABLE ONLY
Although a risk management plan may not be required, if the Permittee produces, processes, handles, or stores any amount of a listed hazardous substance, the Permittee has a general duty to take such steps as are necessary to prevent the accidental release of such substance and to minimize the consequences of any release.

FF. **Title IV Allowances** [15A NCAC 02Q .0508(i)(1)]
This permit does not limit the number of Title IV allowances held by the Permittee, but the Permittee may not use allowances as a defense to noncompliance with any other applicable requirement. The Permittee's emissions may not exceed any allowances that the facility lawfully holds under Title IV of the Federal Clean Air Act.

GG. **Air Pollution Emergency Episode** [15A NCAC 02D .0300]
Should the Director of the DAQ declare an Air Pollution Emergency Episode, the Permittee will be required to operate in accordance with the Permittee's previously approved Emission Reduction Plan or, in the absence of an approved plan, with the appropriate requirements specified in 15A NCAC 02D .0300.

HH. **Registration of Air Pollution Sources** [15A NCAC 02D .0202]
The Director of the DAQ may require the Permittee to register a source of air pollution. If the Permittee is required to register a source of air pollution, this registration and required information will be in accordance with 15A NCAC 02D .0202(b).

II. **Ambient Air Quality Standards** [15A NCAC 02D .0501(c)]
In addition to any control or manner of operation necessary to meet emission standards specified in this permit, any source of air pollution shall be operated with such control or in such manner that the source shall not cause the ambient air quality standards in 15A NCAC 02D .0400 to be exceeded at any point beyond the premises on which the source is located. When controls more stringent than named in the applicable emission standards in this permit are required to prevent violation of the ambient air quality standards or are required to create an offset, the permit shall contain a condition requiring these controls.

JJ. **General Emissions Testing and Reporting Requirements** [15A NCAC 02Q .0508(i)(16)]
Emission compliance testing shall be by the procedures of Section .2600, except as may be otherwise required in Rules .0524, .0912, .1110, .1111, or .1415 of Subchapter 02D. If emissions testing is required by this permit or the DAQ or if the Permittee submits emissions testing to the DAQ to demonstrate compliance, the Permittee shall perform such testing in accordance with 15A NCAC 02D .2600 and follow the procedures outlined below:

1. The owner or operator of the source shall arrange for air emission testing protocols to be provided to the Director prior to air pollution testing. Testing protocols are not required to be pre-approved by the Director prior to air pollution testing. The Director shall review air emission testing protocols for pre-approval prior to testing if requested by the owner or operator at least **45 days** before conducting the test.
2. Any person proposing to conduct an emissions test to demonstrate compliance with an applicable standard shall notify the Director at least **15 days** before beginning the test so that the Director may at his option observe the test.
3. The owner or operator of the source shall arrange for controlling and measuring the production rates during the period of air testing. The owner or operator of the source shall ensure that the equipment or process being tested is operated at the production rate that best fulfills the purpose of the test. The individual conducting the emission test shall describe the procedures used to obtain accurate process data and include in the test report the average production rates determined during each testing period.
4. Two copies of the final air emission test report shall be submitted to the Director not later than **30 days** after sample collection unless otherwise specified in the specific conditions. The owner or operator may request an extension to submit the final test report. The Director shall approve an extension request if he finds that the extension request is a result of actions beyond the control of the owner or operator.

a. The Director shall make the final determination regarding any testing procedure deviation and the validity of the compliance test. The Director may:
   i. Allow deviations from a method specified under a rule in this Section if the owner or operator of the source being tested demonstrates to the satisfaction of the Director that the specified method is inappropriate for the source being tested.
   ii. Prescribe alternate test procedures on an individual basis when he finds that the alternative method is necessary to secure more reliable test data.
   iii. Prescribe or approve methods on an individual basis for sources or pollutants for which no test method is specified in this Section if the methods can be demonstrated to determine compliance of permitted emission sources or pollutants.
b. The Director may authorize the Division of Air Quality to conduct independent tests of any source subject to a rule in this Subchapter to determine the compliance status of that source or to verify any test data submitted relating to that source. Any test conducted by the Division of Air Quality using the appropriate testing procedures described in Section 02D .2600 has precedence over all other tests.

KK. **Reopening for Cause** [15A NCAC 02Q .0517]

1. A permit shall be reopened and revised under the following circumstances:
   a. additional applicable requirements become applicable to a facility with remaining permit term of three or more years;
   b. additional requirements (including excess emission requirements) become applicable to a source covered by Title IV;
   c. the Director or EPA finds that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit; or
   d. the Director or EPA determines that the permit must be revised or revoked to assure compliance with the applicable requirements.
2. Any permit reopening shall be completed or a revised permit issued within 18 months after the applicable requirement is promulgated. No reopening is required if the effective date of the requirement is after the expiration of the permit term unless the term of the permit was extended pursuant to 15A NCAC 02Q .0513(c).
3. Except for the state-enforceable only portion of the permit, the procedures set out in 15A NCAC 02Q .0507, .0521, or .0522 shall be followed to reissue the permit. If the State-enforceable only portion of the permit is reopened, the procedures in 15A NCAC 02Q .0300 shall be followed. The proceedings shall affect only those parts of the permit for which cause to reopen exists.
4. The Director shall notify the Permittee at least 60 days in advance of the date that the permit is to be reopened, except in cases of imminent threat to public health or safety the notification period may be less than 60 days.
5. Within 90 days, or 180 days if the EPA extends the response period, after receiving notification from the EPA that a permit needs to be terminated, modified, or revoked and reissued, the Director shall send to the EPA a proposed determination of termination, modification, or revocation and reissuance, as appropriate.

LL. **Reporting Requirements for Non-Operating Equipment** [15A NCAC 02Q .0508(i)(16)]

The Permittee shall maintain a record of operation for permitted equipment noting whenever the equipment is taken from and placed into operation. When permitted equipment is not in operation, the requirements for testing, monitoring, and recordkeeping are suspended until operation resumes.

MM. **Fugitive Dust Control Requirement** [15A NCAC 02D .0540]

As required by 15A NCAC 02D .0540 "Particulates from Fugitive Dust Emission Sources," the Permittee shall not cause or allow fugitive dust emissions to cause or contribute to substantive complaints or excess visible emissions beyond the property boundary. If substantive complaints or excessive fugitive dust emissions from the facility are observed beyond the property boundaries for six minutes in any one hour (using Reference Method 22 in 40 CFR, Appendix A), the owner or operator may be required to submit a fugitive dust plan as described in 02D .0540(f).

"Fugitive dust emissions" means particulate matter from process operations that does not pass through a process stack or vent and that is generated within plant property boundaries from activities such as: unloading and loading areas, process areas, stockpiles, stock pile working, plant parking lots, and plant roads (including access roads and haul roads).

NN. **Specific Permit Modifications** [15A NCAC 02Q .0501 and .0523]

1. For modifications made pursuant to 15A NCAC 02Q .0501(b)(2), the Permittee shall file a Title V Air Quality Permit Application for the air emission source(s) and associated air pollution control device(s) on or before 12 months after commencing operation.
2. For modifications made pursuant to 15A NCAC 02Q .0501(c)(2), the Permittee shall not begin operation of the air emission source(s) and associated air pollution control device(s) until a Title V Air Quality Permit Application is filed and a construction and operation permit following the procedures of Section .0500 (except for Rule .0504 of this Section) is obtained.
3. For modifications made pursuant to 502(b)(10), in accordance with 15A NCAC 02Q .0523(a)(1)(C), the Permittee shall notify the Director and EPA (EPA - Air Planning Branch, 61 Forsyth Street SW, Atlanta, GA 30303) in writing at least seven days before the change is made. The written notification shall include:
   a. a description of the change at the facility;
   b. the date on which the change will occur;
   c. any change in emissions; and
   d. any permit term or condition that is no longer applicable as a result of the change.

In addition to this notification requirement, with the next significant modification or Air Quality Permit renewal, the Permittee shall submit a page "E5" of the application forms signed by the responsible official verifying that the application for the 502(b)(10) change/modification, is true, accurate, and complete. Further note that modifications made pursuant to 502(b)(10) do not relieve the Permittee from satisfying preconstruction requirements.

OO. **Third Party Participation and EPA Review** [15A NCAC 02Q .0521, .0522 and .0525(7)]

For permits modifications subject to 45-day review by the federal Environmental Protection Agency (EPA), EPA's decision to not object to the proposed permit is considered final and binding on the EPA and absent a third party petition, the failure to object is the end of EPA's decision-making process with respect to the revisions to the permit. The time period available to submit a public petition pursuant to 15A NCAC 02Q .0518 begins at the end of the 45-day EPA review period.

ATTACHMENT

List of Acronyms

AOS	Alternative Operating Scenario
BACT	Best Available Control Technology
Btu	British thermal unit
CAA	Clean Air Act
CAIR	Clean Air Interstate Rule
CEM	Continuous Emission Monitor
CFR	Code of Federal Regulations
DAQ	Division of Air Quality
DEQ	Department of Environmental Quality
EMC	Environmental Management Commission
EPA	Environmental Protection Agency
FR	Federal Register
GACT	Generally Available Control Technology
HAP	Hazardous Air Pollutant
MACT	Maximum Achievable Control Technology
NAA	Non-Attainment Area
NCAC	North Carolina Administrative Code
NCGS	North Carolina General Statutes
NESHAP	National Emission Standards for Hazardous Air Pollutants
NO_X	Nitrogen Oxides
NSPS	New Source Performance Standard
OAH	Office of Administrative Hearings
PM	Particulate Matter
PM_{10}	Particulate Matter with Nominal Aerodynamic Diameter of 10 Micrometers or Less
POS	Primary Operating Scenario
PSD	Prevention of Significant Deterioration
RACT	Reasonably Available Control Technology
SIC	Standard Industrial Classification
SIP	State Implementation Plan
SO_2	Sulfur Dioxide
tpy	Tons Per Year
VOC	Volatile Organic Compound